

## Excellent Integrated System Limited

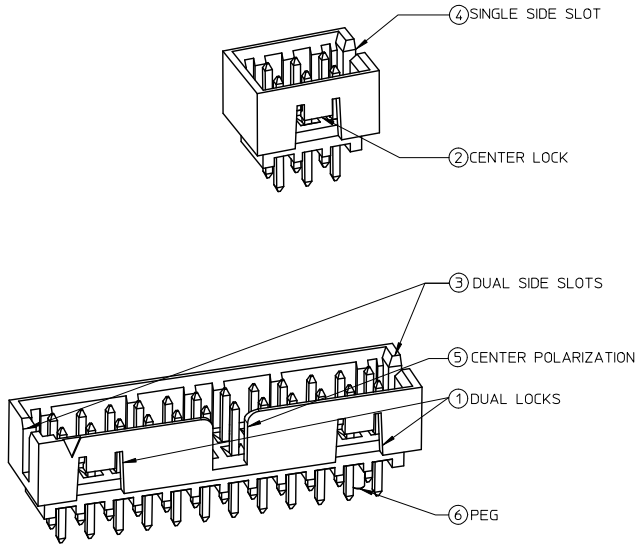
Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Molex Connector Corporation](#)  
[0878313428](#)

For any questions, you can email us directly:  
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

## FEATURES SELECTION GUIDE



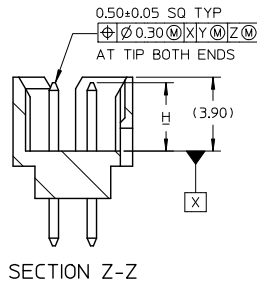
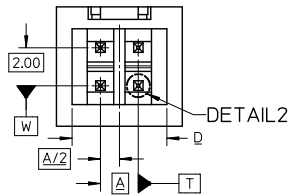
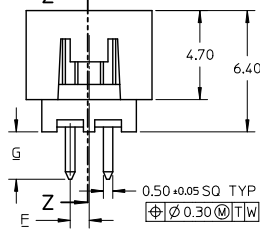
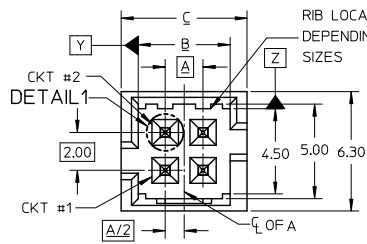
| CIRCUIT<br>SIZE | FEATURES       |          |            |          |                          |       | SHEET<br>NO |
|-----------------|----------------|----------|------------|----------|--------------------------|-------|-------------|
|                 | FRICTION LOCKS |          | SIDE SLOTS |          | ⑤ CENTER<br>POLARIZATION | ⑥ PEG |             |
|                 | ① DUAL         | ② CENTER | ③ DUAL     | ④ SINGLE |                          |       |             |
| 4               | N.A            | N.A      | YES        | N.A      | N.A                      | N.A   | 2 - 3       |
|                 | N.A            | YES      | YES        | N.A      | N.A                      | N.A   |             |
|                 | N.A            | YES      | N.A        | YES      | N.A                      | N.A   |             |
| 6               | N.A            | N.A      | YES        | N.A      | N.A                      | N.A   | 4 - 5       |
|                 | N.A            | N.A      | YES        | N.A      | N.A                      | YES   |             |
|                 | N.A            | YES      | YES        | N.A      | N.A                      | N.A   |             |
|                 | N.A            | YES      | YES        | N.A      | N.A                      | YES   |             |
|                 | N.A            | YES      | N.A        | YES      | N.A                      | N.A   |             |
|                 | N.A            | YES      | N.A        | YES      | N.A                      | YES   |             |
|                 | N.A            | N.A      | YES        | N.A      | YES                      | N.A   |             |
| 8 TO 12         | N.A            | N.A      | YES        | N.A      | YES                      | N.A   | 6 - 8       |
|                 | N.A            | N.A      | YES        | N.A      | YES                      | YES   |             |
|                 | N.A            | YES      | YES        | N.A      | N.A                      | N.A   |             |
|                 | N.A            | YES      | YES        | N.A      | N.A                      | YES   |             |
|                 | N.A            | YES      | N.A        | YES      | N.A                      | N.A   |             |
|                 | N.A            | YES      | N.A        | YES      | N.A                      | YES   |             |
| 14 TO 50        | YES            | N.A      | YES        | N.A      | YES                      | N.A   | 9 - 13      |
|                 | YES            | N.A      | YES        | N.A      | YES                      | YES   |             |

## PACKAGING SPECIFICATION TABLE

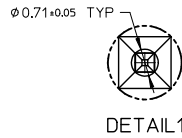
|                                  |              |
|----------------------------------|--------------|
| TAPE AND REEL PACKAGING          | PK-87831-300 |
| TUBE STANDARD PACKAGING          | PK-87831-001 |
| TUBE NON-STANDARD PACKAGING FOR: | PK-87831-002 |
| 87831-0419 87831-0645            |              |
| 87831-5141 87831-0632            |              |
| 87831-0443 87831-5119            |              |
| 87831-5241 87831-1011            |              |
| 87831-5242 87831-1420            |              |
| 87831-0643                       |              |

|                                                                                                                            |             |                 |                                                                                        |          |                            |                                                            |                       |                                                                                                                                    |                                                                                                                 |                                                                                                                                  |  |                      |
|----------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|----------------------------------------------------------------------------------------|----------|----------------------------|------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|----------------------|
| ADD PK TABLE<br>EC NO: S2017-0022<br>DRAWN BY: 2016/07/04<br>CHKD: SCHEONG 2016/07/27<br>APPR: KHL IM 2016/07/28<br><br>A5 | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                  |          | DIMENSION STYLE<br>MM ONLY |                                                            | SCALE<br>NTS          | DESIGN UNITS<br>METRIC                                                                                                             |  THIRD ANGLE<br>PROJECTION |                                                                                                                                  |  |                      |
|                                                                                                                            |             |                 |                                                                                        | mm       | INCH                       | DRAWN BY<br>GMENARLY                                       | DATE<br>2015/04/15    | TITLE<br>MILLIGRID<br>2MM PITCH, THROUGH HOLE<br>VERTICAL SHROUDED HEADER<br><br><b>molex</b><br><br>DOCUMENT NO.<br>SD-87831-0001 |                                                                                                                 |                                                                                                                                  |  |                      |
|                                                                                                                            |             |                 |  =0 | 4 PLACES | ± ---                      | ± ---                                                      | CHECKED BY<br>CGOH    |                                                                                                                                    |                                                                                                                 |                                                                                                                                  |  | DATE<br>2015/06/29   |
|                                                                                                                            |             |                 |  =0 | 3 PLACES | ± ---                      | ± ---                                                      |                       |                                                                                                                                    |                                                                                                                 |                                                                                                                                  |  |                      |
|                                                                                                                            |             |                 |  =0 | 2 PLACES | ± 0.20                     | ± ---                                                      |                       |                                                                                                                                    |                                                                                                                 |                                                                                                                                  |  |                      |
|                                                                                                                            |             |                 |                                                                                        | 1 PLACE  | ± ---                      | ± ---                                                      | APPROVED BY<br>KHL IM |                                                                                                                                    |                                                                                                                 |                                                                                                                                  |  | DATE<br>2015/06/29   |
|                                                                                                                            |             |                 | REV                                                                                    |          |                            | ANGULAR ± 3 °                                              |                       | MATERIAL NO.                                                                                                                       |                                                                                                                 | DOCUMENT NO.<br>SD-87831-0001                                                                                                    |  | SHEET NO.<br>1 OF 13 |
|                                                                                                                            |             |                 |                                                                                        |          |                            | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                       | SEE TABLE                                                                                                                          |                                                                                                                 |                                                                                                                                  |  |                      |
|                                                                                                                            |             |                 |                                                                                        |          |                            |                                                            |                       | SIZE<br>A3                                                                                                                         |                                                                                                                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                      |

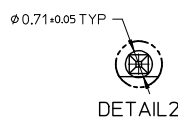
4 CIRCUITS



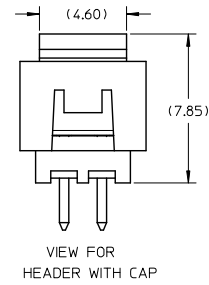
SECTION Z-Z



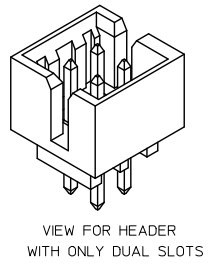
DETAIL1



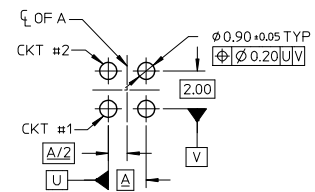
DETAIL2



VIEW FOR  
HEADER WITH CAP



VIEW FOR HEADER  
WITH ONLY DUAL SLOTS



RECOMMENDED PCB LAYOUT

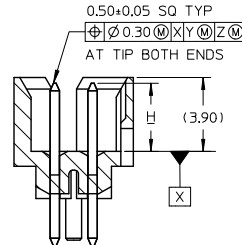
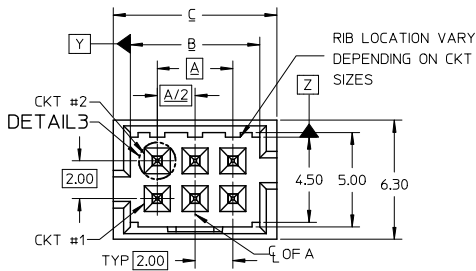
NOTES:

1. MATERIALS:  
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK  
PIN: 0.50MM SQ PHOSPHOR BRONZE
2. FINISHES: REFER TO PLATING OPTIONS
3. PRODUCT SPECIFICATION: PS-87831-027
4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND CRIMP TERMINAL: 50394 SERIES  
B. MOLEX 2MM MILLIGRID DUAL ROW IDT: 87568 SERIES  
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)

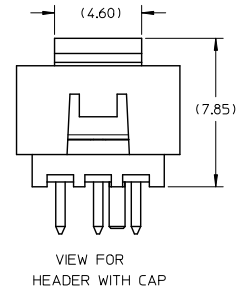
|                                                                                                  |             |                 |                                       |                                                            |                            |                           |                    |                                                                                                                                     |                                                                                                                 |  |  |
|--------------------------------------------------------------------------------------------------|-------------|-----------------|---------------------------------------|------------------------------------------------------------|----------------------------|---------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--|--|
| EDIT NOTE 4<br>EC NO: S2017-0022<br>DRAWN BY: GMEARLY<br>CHKD: SCHEONG<br>APPR: KHLIM<br>REV: A5 | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) |                                                            | DIMENSION STYLE<br>MM ONLY |                           | SCALE<br>NTS       | DESIGN UNITS<br>METRIC                                                                                                              |  THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                                  |             |                 |                                       | mm                                                         | INCH                       | DRAWN BY<br>GMEARLY       | DATE<br>2015/04/15 | MILLIGRID<br>2MM PITCH, THROUGH HOLE<br>VERTICAL SHROUDED HEADER<br><b>molex</b><br>DOCUMENT NO. SD-87831-0001<br>SHEET NO. 2 OF 13 |                                                                                                                 |  |  |
|                                                                                                  |             |                 | 4 PLACES                              | ± ---                                                      | ± ---                      | CHECKED BY<br>CGOH        | DATE<br>2015/06/29 |                                                                                                                                     |                                                                                                                 |  |  |
|                                                                                                  |             |                 | 2 PLACES                              | ± 0.20                                                     | ± ---                      | APPROVED BY<br>KHLIM      | DATE<br>2015/06/29 |                                                                                                                                     |                                                                                                                 |  |  |
|                                                                                                  |             |                 | 1 PLACE                               | ± ---                                                      | ± ---                      | MATERIAL NO.<br>SEE TABLE |                    |                                                                                                                                     |                                                                                                                 |  |  |
|                                                                                                  | REV         | DESCRIPTION     | QUALITY SYMBOLS                       | ANGULAR ± 3°                                               |                            |                           |                    |                                                                                                                                     |                                                                                                                 |  |  |
|                                                                                                  |             |                 |                                       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                            | SIZE<br>A3                |                    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION    |                                                                                                                 |  |  |
|                                                                                                  |             |                 |                                       |                                                            |                            |                           |                    |                                                                                                                                     |                                                                                                                 |  |  |
|                                                                                                  |             |                 |                                       |                                                            |                            |                           |                    |                                                                                                                                     |                                                                                                                 |  |  |
|                                                                                                  |             |                 |                                       |                                                            |                            |                           |                    |                                                                                                                                     |                                                                                                                 |  |  |

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    |                                 |                                |                    |                |        |            |        |                        |                                        |           |      |      |      |     |      |      |           |   |   |   |   |   |   |   |   |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------|--------------------------------|--------------------|----------------|--------|------------|--------|------------------------|----------------------------------------|-----------|------|------|------|-----|------|------|-----------|---|---|---|---|---|---|---|---|
|            | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9                                  | 8                               | 7                              | 6                  | 5              | 4      | 3          | 2      | 1                      |                                        |           |      |      |      |     |      |      |           |   |   |   |   |   |   |   |   |
|            | 4 CIRCUITS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                    |                                 |                                |                    |                |        |            |        |                        |                                        |           |      |      |      |     |      |      |           |   |   |   |   |   |   |   |   |
| F          | CKT<br>SIZE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ASSY P/N<br>WITHOUT CAP<br>IN TUBE | ASSY P/N<br>WITH CAP<br>IN TUBE | ASSY P/N<br>WITH CAP<br>IN T&R | PLATING<br>OPTIONS | FRICTION LOCKS |        | SIDE SLOTS |        | CENTER<br>POLARIZATION | PEG                                    | DIMENSION |      |      |      |     |      | F    |           |   |   |   |   |   |   |   |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    |                                 |                                |                    | DUAL           | CENTER | DUAL       | SINGLE |                        |                                        | A         | B    | C    | D    | E   | F    |      | G         | H |   |   |   |   |   |   |   |
| E          | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 87831-0419                         | N.A                             | N.A                            | 1                  | N.A            | N.A    | YES        | N.A    | N.A                    | N.A                                    | 2.00      | 4.85 | 6.65 | 5.00 | N.A | N.A  | 2.50 | 3.60±0.20 | E |   |   |   |   |   |   |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 87831-0420                         | N.A                             | N.A                            | 2                  |                |        |            |        |                        |                                        |           |      |      |      |     |      |      |           |   |   |   |   |   |   |   |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 87831-0421                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |                                        |           |      |      |      |     |      |      |           |   |   |   |   |   |   |   |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 87831-0436                         | N.A                             | N.A                            | 4                  | N.A            | YES    | YES        | N.A    | N.A                    | N.A                                    |           |      |      |      |     | 1.00 | 2.50 |           |   |   |   |   |   |   |   |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 87831-0441                         | 87831-0456                      | N.A                            | 2                  |                |        |            |        |                        |                                        |           |      |      |      |     |      |      |           |   |   |   |   |   |   |   |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 87831-0442                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |                                        |           |      |      |      |     |      |      |           |   |   |   |   |   |   |   |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 87831-5141                         | N.A                             | N.A                            | 2                  | N.A            | YES    | YES        | N.A    | N.A                    | N.A                                    |           |      |      |      |     |      | 2.80 |           |   |   |   |   |   |   |   |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 87831-5142                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |                                        |           |      |      |      |     |      |      |           |   |   |   |   |   |   |   |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 87831-6141                         | N.A                             | N.A                            | 2                  |                |        |            |        |                        |                                        |           |      |      |      |     |      |      |           |   |   |   |   |   |   |   |   |
| 87831-6142 | N.A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | N.A                                | 3                               | N.A                            | YES                | YES            | N.A    | N.A        | N.A    | 2.50                   | 3.60 <sup>+0.15</sup> <sub>-0.10</sub> |           |      |      |      |     |      |      |           |   |   |   |   |   |   |   |   |
| 87831-0443 | N.A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | N.A                                | 2                               |                                |                    |                |        |            |        |                        |                                        |           |      |      |      |     |      |      |           |   |   |   |   |   |   |   |   |
| 87831-0444 | N.A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | N.A                                | 3                               |                                |                    |                |        |            |        |                        |                                        |           |      |      |      |     |      |      |           |   |   |   |   |   |   |   |   |
| D          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    |                                 |                                |                    |                |        |            |        |                        |                                        |           |      |      |      |     |      |      |           | D |   |   |   |   |   |   |   |
| C          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    |                                 |                                |                    |                |        |            |        |                        |                                        |           |      |      |      |     |      |      |           | C |   |   |   |   |   |   |   |
| B          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    |                                 |                                |                    |                |        |            |        |                        |                                        |           |      |      |      |     |      |      |           | B |   |   |   |   |   |   |   |
| A          | <div>PLATING OPTIONS:</div> <div>1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.</div> <div>2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.</div> <div>3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTETIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.</div> <div>4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.</div> <div><div>SEE SHEET 1.2.4.6.8-10</div><div>EC NO: S2017-0022</div><div>2016/07/04</div><div>DRW:GEMARLY</div><div>CHKD:SCHEONG</div><div>APPR:KHLIM</div><div>2016/07/27</div><div>2016/07/28</div><div>DESCRIPTION</div><div>REV</div><div>QUALITY SYMBOLS</div><div>GENERAL TOLERANCES (UNLESS SPECIFIED)</div><div>mm</div><div>INCH</div><div>DRAWN BY</div><div>DATE</div><div>CHECKED BY</div><div>DATE</div><div>APPROVED BY</div><div>DATE</div><div>MATERIAL NO.</div><div>DOCUMENT NO.</div><div>SHEET NO.</div><div>3 OF 13</div><div>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</div></div> <div><div>THIRD ANGLE PROJECTION</div><div>MILLIGRID</div><div>2MM PITCH, THROUGH HOLE</div><div>VERTICAL SHROUDED HEADER</div><div>molex</div><div>SD-87831-0001</div></div> |                                    |                                 |                                |                    |                |        |            |        |                        |                                        |           |      |      |      |     |      |      |           | A |   |   |   |   |   |   |   |
|            | b_frame_A3_P_AM_T<br>Rev. G 2012/01/11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                    |                                 |                                |                    |                |        |            |        |                        |                                        |           |      |      |      |     |      |      |           | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 |

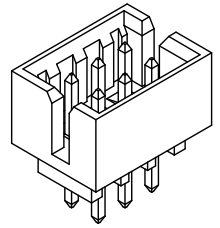
6 CIRCUITS



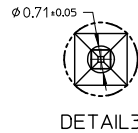
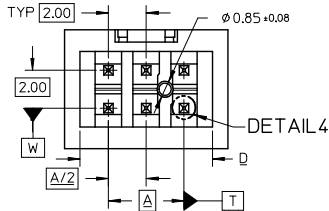
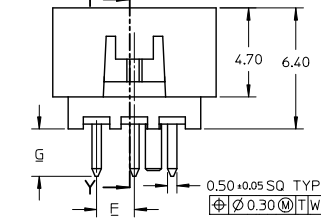
SECTION Y-Y



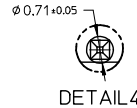
VIEW FOR  
HEADER WITH CAP



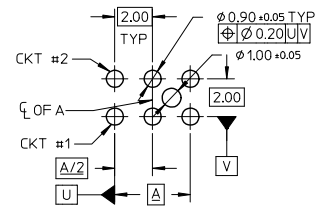
VIEW FOR HEADER WITH  
ONLY DUAL SLOTS



DETAIL3



DETAIL4



RECOMMENDED PCB LAYOUT

NOTES:

1. MATERIALS:

HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK  
PIN: 0.50MM SQ PHOSPHOR BRONZE

2. FINISHES: REFER TO PLATING OPTIONS

3. PRODUCT SPECIFICATION: PS-87831-027

4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1

5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 5110 SERIES

AND CRIMP TERMINAL: 50394 SERIES

B. MOLEX 2MM MILLIGRID DUAL ROW IDT: 87568 SERIES

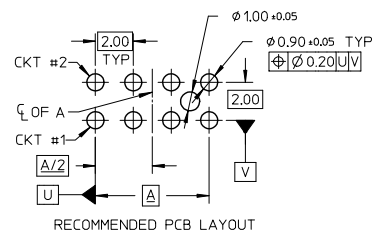
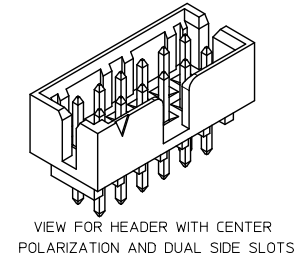
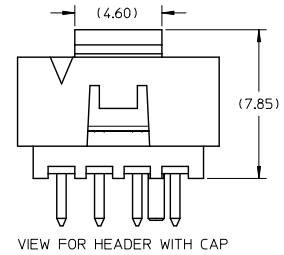
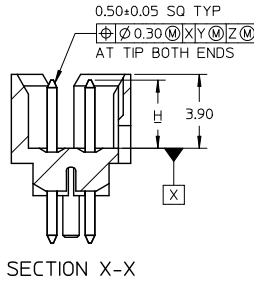
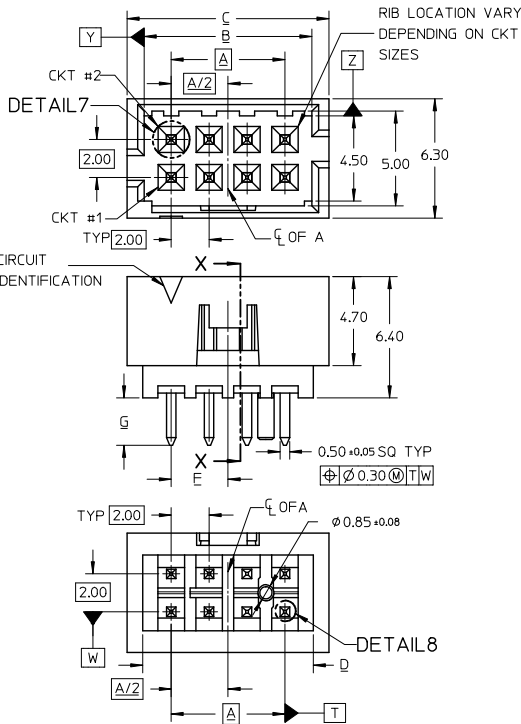
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE:

79107 (GOLD PLATED), 78787 (TIN PLATED)

|                                                                                                    |            |            |            |                 |             |                                                      |      |                                                                                                                               |            |                                                                                                                                              |  |       |              |                        |  |
|----------------------------------------------------------------------------------------------------|------------|------------|------------|-----------------|-------------|------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------|--|-------|--------------|------------------------|--|
| EDIT NOTE 4<br>EC NO: S2017-0022<br>DRAWN BY: GMENARLY<br>CHKD: SCHEONG<br>APPR: KHL IM<br>REV: A5 | 2016/07/04 | 2016/07/27 | 2016/07/28 | QUALITY SYMBOLS | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED)                |      |                                                                                                                               |            | DIMENSION STYLE                                                                                                                              |  | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION |  |
|                                                                                                    |            |            |            |                 |             | MM ONLY                                              |      | NTS                                                                                                                           | METRIC     |                                                                                                                                              |  |       |              |                        |  |
|                                                                                                    |            |            |            |                 |             | mm                                                   | INCH | DRAWN BY                                                                                                                      | DATE       | TITLE<br>MILLIGRID<br>2MM PITCH, THROUGH HOLE<br>VERTICAL SHROUDED HEADER<br><b>molex</b><br>DOCUMENT NO. SD-87831-0001<br>SHEET NO. 4 OF 13 |  |       |              |                        |  |
|                                                                                                    | ▽=0        |            |            |                 |             | 4 PLACES ±---                                        | ±--- | GMENARLY                                                                                                                      | 2015/04/15 |                                                                                                                                              |  |       |              |                        |  |
|                                                                                                    | ▽=0        |            |            |                 |             | 3 PLACES ±---                                        | ±--- | CHECKED BY                                                                                                                    | DATE       |                                                                                                                                              |  |       |              |                        |  |
|                                                                                                    | ▽=0        |            |            |                 |             | 2 PLACES ±0.20                                       | ±--- | CGOH                                                                                                                          | 2015/06/29 |                                                                                                                                              |  |       |              |                        |  |
|                                                                                                    | ▽=0        |            |            |                 |             | 1 PLACE ±---                                         | ±--- | APPROVED BY                                                                                                                   | DATE       |                                                                                                                                              |  |       |              |                        |  |
|                                                                                                    |            |            |            |                 |             | 0 PLACE ±---                                         | ±--- | KHL IM                                                                                                                        | 2015/06/29 |                                                                                                                                              |  |       |              |                        |  |
|                                                                                                    |            |            |            |                 |             | ANGULAR ± 3°                                         |      | MATERIAL NO.                                                                                                                  |            |                                                                                                                                              |  |       |              |                        |  |
|                                                                                                    |            |            |            |                 |             | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |      | SEE TABLE                                                                                                                     |            |                                                                                                                                              |  |       |              |                        |  |
|                                                                                                    |            |            |            |                 |             | SIZE                                                 |      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |            |                                                                                                                                              |  |       |              |                        |  |
|                                                                                                    |            |            |            |                 |             | A3                                                   |      |                                                                                                                               |            |                                                                                                                                              |  |       |              |                        |  |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |                                 |                                |                    |                    |                                          |                            |        |                        |                        |                           |      |                                                                  |      |                                        |      |                               |           |                      |                                                                                                                                  |                                        |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------|--------------------------------|--------------------|--------------------|------------------------------------------|----------------------------|--------|------------------------|------------------------|---------------------------|------|------------------------------------------------------------------|------|----------------------------------------|------|-------------------------------|-----------|----------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|   | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9                                  | 8                               | 7                              | 6                  | 5                  | 4                                        | 3                          | 2      | 1                      |                        |                           |      |                                                                  |      |                                        |      |                               |           |                      |                                                                                                                                  |                                        |
|   | 6 CIRCUITS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |                                 |                                |                    |                    |                                          |                            |        |                        |                        |                           |      |                                                                  |      |                                        |      |                               |           |                      |                                                                                                                                  |                                        |
| F | CKT<br>SIZE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ASSY P/N<br>WITHOUT CAP<br>IN TUBE | ASSY P/N<br>WITH CAP<br>IN TUBE | ASSY P/N<br>WITH CAP<br>IN T&R | PLATING<br>OPTIONS | FRICTION LOCKS     |                                          | SIDE SLOTS                 |        | CENTER<br>POLARIZATION | PEG                    | DIMENSION                 |      |                                                                  |      |                                        |      |                               |           | F                    |                                                                                                                                  |                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |                                 |                                |                    | DUAL               | CENTER                                   | DUAL                       | SINGLE |                        |                        | A                         | B    | C                                                                | D    | E                                      | F    | G                             | H         |                      |                                                                                                                                  |                                        |
| E | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 87831-0619                         | N.A                             | N.A                            | 1                  | N.A                | N.A                                      | YES                        | N.A    | N.A                    | N.A                    | 4.00                      | 6.85 | 8.65                                                             | 7.00 | N.A                                    | N.A  | 2.50                          | 3.60±0.20 | E                    |                                                                                                                                  |                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 87831-0620                         | N.A                             | N.A                            | 2                  |                    |                                          |                            |        |                        |                        |                           |      |                                                                  |      |                                        | N.A  | 2.50                          |           |                      |                                                                                                                                  |                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 87831-0621                         | N.A                             | N.A                            | 3                  |                    |                                          |                            |        |                        |                        |                           |      |                                                                  |      |                                        | N.A  | 2.50                          |           |                      |                                                                                                                                  |                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 87831-0636                         | N.A                             | N.A                            | 4                  |                    |                                          |                            |        |                        |                        |                           |      |                                                                  |      |                                        | N.A  | 2.50                          |           |                      |                                                                                                                                  |                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 87831-0628                         | N.A                             | N.A                            | 2                  | N.A                | N.A                                      | YES                        | N.A    | N.A                    | YES                    |                           |      |                                                                  |      |                                        | N.A  | 2.50                          | 2.00      |                      | 2.50                                                                                                                             | 3.60 <sup>+0.15</sup> <sub>-0.10</sub> |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 87831-0629                         | N.A                             | N.A                            | 3                  |                    |                                          |                            |        |                        |                        |                           |      |                                                                  |      |                                        | 2.50 |                               |           |                      |                                                                                                                                  |                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 87831-0641                         | N.A                             | N.A                            | 2                  | N.A                | YES                                      | YES                        | N.A    | N.A                    | N.A                    |                           |      |                                                                  |      |                                        | N.A  | 2.50                          |           |                      |                                                                                                                                  |                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 87831-0642                         | N.A                             | 87831-5552                     | 3                  |                    |                                          |                            |        |                        |                        |                           |      |                                                                  |      |                                        | 2.50 |                               |           |                      |                                                                                                                                  |                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 87831-5241                         | N.A                             | N.A                            | 2                  | N.A                | YES                                      | YES                        | N.A    | N.A                    | N.A                    |                           |      |                                                                  |      |                                        | N.A  | 2.50                          |           |                      |                                                                                                                                  |                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 87831-5242                         | N.A                             | N.A                            | 3                  |                    |                                          |                            |        |                        |                        |                           |      |                                                                  |      |                                        | 2.80 |                               |           |                      |                                                                                                                                  |                                        |
| D |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 87831-6241                         | N.A                             | N.A                            | 2                  | N.A                | YES                                      | YES                        | N.A    | N.A                    | N.A                    | N.A                       | 2.50 | 2.00                                                             | 2.50 | 3.60 <sup>+0.15</sup> <sub>-0.10</sub> |      |                               |           |                      |                                                                                                                                  |                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 87831-6242                         | N.A                             | N.A                            | 3                  |                    |                                          |                            |        |                        |                        | 2.50                      |      |                                                                  |      |                                        |      |                               |           |                      |                                                                                                                                  |                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 87831-0643                         | N.A                             | N.A                            | 2                  | N.A                | YES                                      | N.A                        | YES    | N.A                    | N.A                    | N.A                       | 2.50 |                                                                  |      |                                        |      |                               |           |                      |                                                                                                                                  |                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 87831-0644                         | N.A                             | N.A                            | 3                  |                    |                                          |                            |        |                        |                        | 2.50                      |      |                                                                  |      |                                        |      |                               |           |                      |                                                                                                                                  |                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 87831-0645                         | N.A                             | N.A                            | 2                  | N.A                | YES                                      | N.A                        | YES    | N.A                    | YES                    | N.A                       | 2.50 |                                                                  |      |                                        |      |                               |           |                      |                                                                                                                                  |                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 87831-0646                         | N.A                             | N.A                            | 3                  |                    |                                          |                            |        |                        |                        | 2.50                      |      |                                                                  |      |                                        |      |                               |           |                      |                                                                                                                                  |                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 87831-0632                         | N.A                             | N.A                            | 2                  | N.A                | YES                                      | YES                        | N.A    | N.A                    | YES                    | N.A                       | 2.50 |                                                                  |      |                                        |      |                               |           |                      |                                                                                                                                  |                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 87831-5119                         | N.A                             | N.A                            | 1                  |                    |                                          |                            |        |                        |                        | N.A                       | N.A  | YES                                                              | N.A  | YES                                    | N.A  | 2.50                          | 3.60±0.20 |                      |                                                                                                                                  |                                        |
| C |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |                                 |                                |                    |                    |                                          |                            |        |                        |                        |                           |      |                                                                  |      |                                        |      |                               |           | C                    |                                                                                                                                  |                                        |
| B |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |                                 |                                |                    |                    |                                          |                            |        |                        |                        |                           |      |                                                                  |      |                                        |      |                               |           | B                    |                                                                                                                                  |                                        |
| A | <div>PLATING OPTIONS:</div> <div>1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.</div> <div>2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.</div> <div>3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.</div> <div>4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.</div> |                                    |                                 |                                |                    |                    |                                          |                            |        |                        |                        |                           |      |                                                                  |      |                                        |      |                               |           | A                    |                                                                                                                                  |                                        |
|   | <div>SEE SHEET 1.2.4.6.8-10</div> <div>EC NO: S2017-0022</div> <div>DRW:GEMARLY 2016/07/04</div> <div>CHKD:SCHEONG 2016/07/27</div> <div>APPR:KHLIM 2016/07/28</div> <div>A5</div>                                                                                                                                                                                                                                                                                                                                                                       |                                    |                                 |                                | REV                | QUALITY<br>SYMBOLS | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) | DIMENSION STYLE<br>MM ONLY |        | SCALE<br>NTS           | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |      | MILLIGRID<br>2MM PITCH, THROUGH HOLE<br>VERTICAL SHROUDED HEADER |      |                                        |      | DOCUMENT NO.<br>SD-87831-0001 |           | SHEET NO.<br>5 OF 13 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                        |
|   | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9                                  | 8                               | 7                              | 6                  | 5                  | 4                                        | 3                          | 2      | 1                      |                        |                           |      |                                                                  |      |                                        |      |                               |           |                      |                                                                                                                                  |                                        |

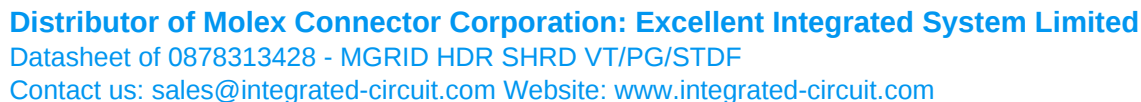
8 TO 12 CIRCUITS



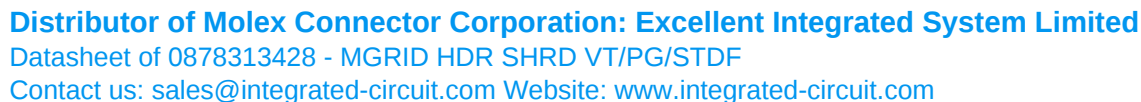
NOTES:

1. MATERIALS:  
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK  
PIN: 0.50MM SQ PHOSPHOR BRONZE
2. FINISHES: REFER TO PLATING OPTIONS
3. PRODUCT SPECIFICATION: PS-87831-027
4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND CRIMP TERMINAL: 50394 SERIES  
B. MOLEX 2MM MILLIGRID DUAL ROW IDT: 87568 SERIES  
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)

|                                                                                     |                                        |             |                 |                                       |  |  |                                                                                                                               |            |                                                                  |              |             |  |  |
|-------------------------------------------------------------------------------------|----------------------------------------|-------------|-----------------|---------------------------------------|--|--|-------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------|--------------|-------------|--|--|
| EDIT NOTE 4<br>EC NO: 52077-0002<br>DRAWN BY GMENARLY<br>CHKD:SCHEONG<br>APPR:KHLIM | 2016/07/04<br>2016/07/27<br>2016/07/28 | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) |  |  | DIMENSION STYLE                                                                                                               |            | SCALE                                                            | DESIGN UNITS | THIRD ANGLE |  |  |
|                                                                                     |                                        |             |                 |                                       |  |  | MM ONLY                                                                                                                       |            | NTS                                                              | METRIC       | PROJECTION  |  |  |
|                                                                                     |                                        |             |                 |                                       |  |  | DRAWN BY                                                                                                                      | DATE       | TITLE                                                            |              |             |  |  |
|                                                                                     |                                        |             |                 |                                       |  |  | CHECKED BY                                                                                                                    | DATE       | MILLIGRID<br>2MM PITCH, THROUGH HOLE<br>VERTICAL SHROUDED HEADER |              |             |  |  |
|                                                                                     |                                        |             |                 |                                       |  |  | CGOH                                                                                                                          | 2015/06/29 |                                                                  |              |             |  |  |
|                                                                                     |                                        |             |                 |                                       |  |  | APPROVED BY                                                                                                                   | DATE       | molex                                                            |              |             |  |  |
|                                                                                     |                                        |             |                 |                                       |  |  | KHLIM                                                                                                                         | 2015/06/29 |                                                                  |              |             |  |  |
|                                                                                     |                                        |             |                 |                                       |  |  | MATERIAL NO.                                                                                                                  |            | DOCUMENT NO.                                                     |              | SHEET NO.   |  |  |
|                                                                                     |                                        |             |                 |                                       |  |  | SEE TABLE                                                                                                                     |            | SD-87831-0001                                                    |              | 6 OF 13     |  |  |
|                                                                                     |                                        |             |                 |                                       |  |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |            |                                                                  |              |             |  |  |

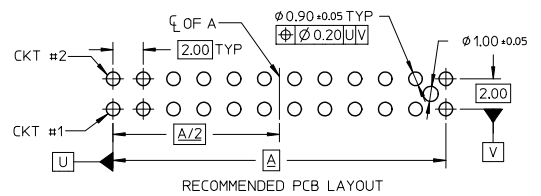
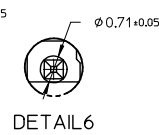
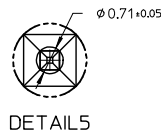
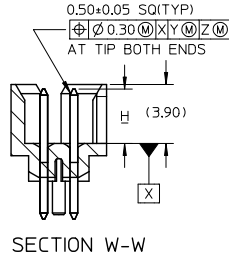
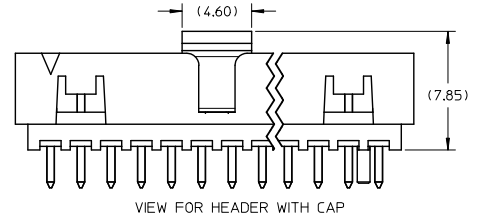
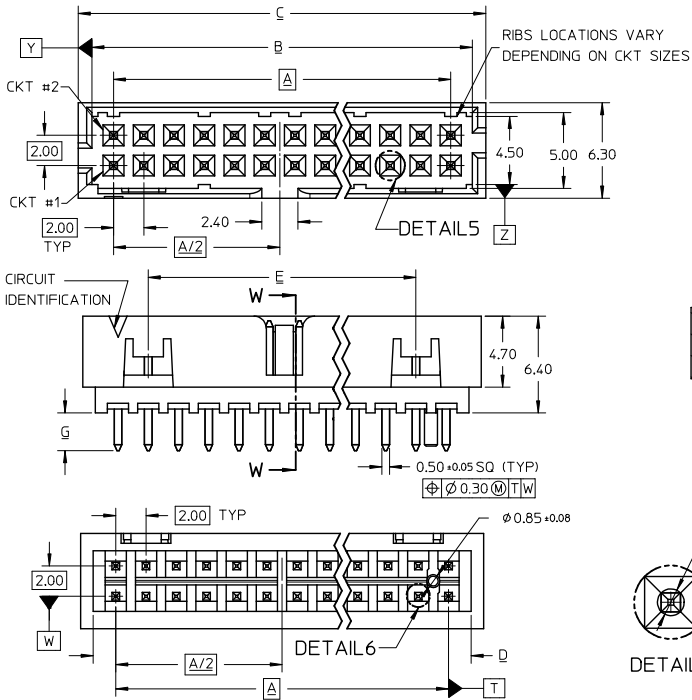


lb\_frame\_A3\_P\_AM\_T  
Rev. G 2012/01/11



fb\_frame\_A3\_P\_AM\_T  
Rev. G 2012/01/11

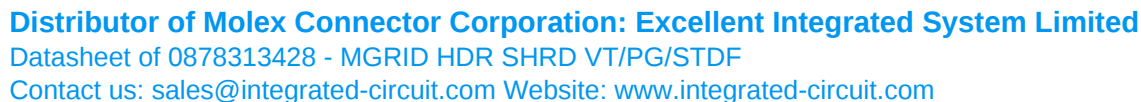
14 TO 50 CIRCUITS



NOTES:

1. MATERIALS:  
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK  
PIN: 0.50MM SQ PHOSPHOR BRONZE
2. FINISHES: REFER TO PLATING OPTIONS
3. PRODUCT SPECIFICATION: PS-87831-027
4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND CRIMP TERMINAL: 50394 SERIES  
B. MOLEX 2MM MILLIGRID DUAL ROW IDT: 87568 SERIES  
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)

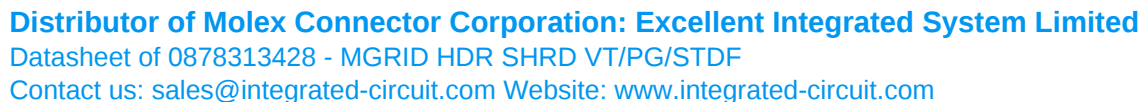
|                                                                                       |            |             |                 |                                                      |         |                                                                                                                               |             |               |                          |                        |
|---------------------------------------------------------------------------------------|------------|-------------|-----------------|------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|--------------------------|------------------------|
| EDIT NOTE 4<br>EC NO: SZ07-0022<br>DRAWN BY: GMENARLY<br>CHKD: SCHEUNG<br>APPR: KHLIM | 2016/07/04 | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                |         | DIMENSION STYLE                                                                                                               |             | SCALE         | DESIGN UNITS             | THIRD ANGLE PROJECTION |
|                                                                                       | 2016/07/27 |             |                 |                                                      |         | MM ONLY                                                                                                                       |             | NTS           | METRIC                   |                        |
|                                                                                       | 2016/07/28 |             |                 |                                                      | mm      | INCH                                                                                                                          | DRAWN BY    | DATE          | TITLE                    |                        |
|                                                                                       | ▽=0        |             |                 | 4 PLACES                                             | ± ---   | ± ---                                                                                                                         | GMENARLY    | 2015/04/15    | MILLIGRID                |                        |
|                                                                                       | ▽=0        |             |                 | 3 PLACES                                             | ± ---   | ± ---                                                                                                                         | CHECKED BY  | DATE          | 2MM PITCH, THROUGH HOLE  |                        |
|                                                                                       | ▽=0        |             |                 | 2 PLACES                                             | ± 0.20  | ± ---                                                                                                                         | CGOH        | 2015/06/29    | VERTICAL SHROUDED HEADER |                        |
|                                                                                       | ▽=0        |             |                 | 1 PLACE                                              | ± ---   | ± ---                                                                                                                         | APPROVED BY | DATE          |                          |                        |
|                                                                                       | ▽=0        |             |                 | 0 PLACE                                              | ± ---   | ± ---                                                                                                                         | KHLIM       | 2015/06/29    |                          |                        |
|                                                                                       |            |             |                 | ANGULAR ± 3 °                                        |         | MATERIAL NO.                                                                                                                  |             | DOCUMENT NO.  |                          | SHEET NO.              |
|                                                                                       |            |             |                 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |         | SEE TABLE                                                                                                                     |             | SD-87831-0001 |                          | 9 OF 13                |
| A5                                                                                    | REV        |             |                 |                                                      | SIZE A3 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |             |               |                          |                        |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                              |                           |                          |                 |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
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| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          | 9                            |                           | 8                        |                 | 7              |        | 6          |        | 5                   |     | 4         |       | 3     |       | 2     |     | 1    |           |
| 14 TO 20 CIRCUITS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                              |                           |                          |                 |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
| F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CKT SIZE | ASSY P/N WITHOUT CAP IN TUBE | ASSY P/N WITH CAP IN TUBE | ASSY P/N WITH CAP IN T&R | PLATING OPTIONS | FRICTION LOCKS |        | SIDE SLOTS |        | CENTER POLARIZATION | PEG | DIMENSION |       |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                              |                           |                          |                 | DUAL           | CENTER | DUAL       | SINGLE |                     |     | A         | B     | C     | D     | E     | F   | G    | H         |
| E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14       | 87831-1419                   | N.A                       | N.A                      | 1               | YES            | N.A    | YES        | N.A    | YES                 | N.A | 12.00     | 14.85 | 16.65 | 15.00 | 8.00  | N.A | 2.50 | 3.60±0.20 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | 87831-1420                   | 87831-1430                | 87831-5554               | 2               |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | 87831-1421                   | N.A                       | N.A                      | 3               |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | 87831-1436                   | N.A                       | N.A                      | 4               |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | 87831-1428                   | N.A                       | N.A                      | 2               | YES            | N.A    | YES        | N.A    | YES                 | YES |           |       |       |       |       |     | 2.50 |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | 87831-1429                   | N.A                       | N.A                      | 3               |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | 87831-1435                   | N.A                       | N.A                      | 3               |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
| 87831-1410                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | N.A      | N.A                          | 2                         | YES                      | N.A             | YES            | N.A    | YES        | N.A    | 3.50                |     |           |       |       |       |       |     |      |           |
| 87831-1411                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | N.A      | N.A                          | 3                         |                          |                 |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 16       | 87831-1619                   | N.A                       | N.A                      | 1               | YES            | N.A    | YES        | N.A    | YES                 | N.A | 14.00     | 16.85 | 18.65 | 17.00 | 10.00 | N.A | 2.50 | 3.60±0.20 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | 87831-1620                   | N.A                       | N.A                      | 2               |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | 87831-1621                   | N.A                       | N.A                      | 3               |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | 87831-1636                   | N.A                       | N.A                      | 4               | YES            | N.A    | YES        | N.A    | YES                 | YES |           |       |       |       |       |     | 2.50 |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | 87831-1628                   | N.A                       | N.A                      | 2               |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | 87831-1629                   | N.A                       | 87831-5559               | 3               |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | 87831-1635                   | N.A                       | N.A                      | 3               | YES            | N.A    | YES        | N.A    | YES                 | YES |           |       |       |       |       |     | 3.50 |           |
| C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 18       | 87831-1819                   | N.A                       | N.A                      | 1               | YES            | N.A    | YES        | N.A    | YES                 | N.A | 16.00     | 18.85 | 20.65 | 19.00 | 12.00 | N.A | 2.50 | 3.60±0.20 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | 87831-1820                   | N.A                       | N.A                      | 2               |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | 87831-1821                   | N.A                       | N.A                      | 3               |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | 87831-1828                   | N.A                       | N.A                      | 2               |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | 87831-1829                   | N.A                       | N.A                      | 3               |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
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| 87831-2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | N.A      |                              |                           | N.A                      | 2               |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
| 87831-2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | N.A      |                              |                           | N.A                      | 3               |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
| 87831-2036                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | N.A      |                              |                           | N.A                      | 4               | YES            | N.A    | YES        | N.A    | YES                 | YES | 2.50      |       |       |       |       |     |      |           |
| 87831-2028                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | N.A      |                              |                           | N.A                      | 2               |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
| 87831-2029                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | N.A      |                              |                           | N.A                      | 3               |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
| 87831-2035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | N.A      |                              |                           | N.A                      | 3               | YES            | N.A    | YES        | N.A    | YES                 | YES | 3.50      |       |       |       |       |     |      |           |
| 87831-2010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | N.A      | N.A                          | 2                         | YES                      | N.A             | YES            | N.A    | YES        | N.A    | 3.50                |     |           |       |       |       |       |     |      |           |
| 87831-2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | N.A      | N.A                          | 3                         |                          |                 |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
| <div>PLATING OPTIONS:</div> <div><div><div>1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.</div><div>2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.</div><div>3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.</div><div>4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL.</div></div><div><div><div><div><div>ADD 87831-5559</div><div>EC NO: S2017-0022</div><div>DRAWN BY: 2016/07/04</div><div>CHECKED BY: 2016/07/27</div><div>APPR: KHL IM</div><div>2016/07/28</div></div><div>REV</div><div>A5</div></div><div><div>QUALITY SYMBOLS</div><div>∇=0</div><div>∇=0</div><div>∇=0</div></div><div><div>GENERAL TOLERANCES (UNLESS SPECIFIED)</div><div><div><div>mm</div><div>INCH</div></div><div>4 PLACES ± --- ± ---</div><div>3 PLACES ± --- ± ---</div><div>2 PLACES ± 0.20 ± ---</div><div>1 PLACE ± --- ± ---</div><div>0 PLACE ± --- ± ---</div></div><div>ANGULAR ± 3 °</div><div>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</div></div><div><div><div>DIMENSION STYLE</div><div>MM ONLY</div></div><div><div>DRAWN BY</div><div>DATE</div><div>GMENARLY</div><div>2015/04/15</div></div><div><div>CHECKED BY</div><div>DATE</div><div>CGOH</div><div>2015/06/29</div></div><div><div>APPROVED BY</div><div>DATE</div><div>KHL IM</div><div>2015/06/29</div></div><div><div>MATERIAL NO.</div><div>SEE TABLE</div></div><div><div>SCALE</div><div>NTS</div></div><div><div>DESIGN UNITS</div><div>METRIC</div></div><div><div>THIRD ANGLE PROJECTION</div></div><div><div>TITLE</div><div>MILLIGRID</div><div>2MM PITCH, THROUGH HOLE</div><div>VERTICAL SHROUDED HEADER</div><div>molex</div></div><div><div>DOCUMENT NO.</div><div>SD-87831-0001</div></div><div><div>SHEET NO.</div><div>10 OF 13</div></div></div><div><div><div>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX</div><div>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</div></div></div></div></div></div> |          |                              |                           |                          |                 |                |        |            |        |                     |     |           |       |       |       |       |     |      |           |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          | 9                            |                           | 8                        |                 | 7              |        | 6          |        | 5                   |     | 4         |       | 3     |       | 2     |     | 1    |           |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            | 10                           |                           | 9                        |                 | 8              |        | 7          |        | 6                   |       | 5         |       | 4     |       | 3   |      | 2         |   | 1 |  |
| 32 TO 40 CIRCUITS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CKT SIZE   | ASSY P/N WITHOUT CAP IN TUBE | ASSY P/N WITH CAP IN TUBE | ASSY P/N WITH CAP IN T&R | PLATING OPTIONS | FRICTION LOCKS |        | SIDE SLOTS |        | CENTER POLARIZATION | PEG   | DIMENSION |       |       |       |     |      |           |   | F |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                              |                           |                          |                 | DUAL           | CENTER | DUAL       | SINGLE |                     |       | A         | B     | C     | D     | E   | F    | G         | H |   |  |
| 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 87831-3219 | N.A                          | N.A                       | 1                        | YES             | N.A            | YES    | N.A        | YES    | N.A                 | 30.00 | 32.85     | 34.65 | 33.00 | 26.00 | N.A | 2.50 | 3.60±0.20 |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3220 | N.A                          | N.A                       | 2                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3221 | N.A                          | N.A                       | 3                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3236 | N.A                          | N.A                       | 4                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3228 | N.A                          | N.A                       | 2                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 87831-3229 | N.A                          | N.A                       | 3                        | YES             | N.A            | YES    | N.A        | YES    | YES                 |       |           |       |       |       |     | 2.50 |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3419 | N.A                          | N.A                       | 1                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3420 | N.A                          | N.A                       | 2                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3421 | N.A                          | N.A                       | 3                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3436 | N.A                          | N.A                       | 4                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 87831-3428 | N.A                          | N.A                       | 2                        | YES             | N.A            | YES    | N.A        | YES    | YES                 | 32.00 | 34.85     | 36.65 | 35.00 | 28.00 | N.A | 2.50 | 3.60±0.20 |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3429 | N.A                          | N.A                       | 3                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3435 | N.A                          | N.A                       | 3                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3619 | N.A                          | N.A                       | 1                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3620 | N.A                          | N.A                       | 2                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 87831-3621 | N.A                          | N.A                       | 3                        | YES             | N.A            | YES    | N.A        | YES    | N.A                 | 34.00 | 36.85     | 38.65 | 37.00 | 30.00 | N.A | 2.50 | 3.60±0.20 |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3636 | N.A                          | N.A                       | 4                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3628 | N.A                          | N.A                       | 2                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3629 | N.A                          | N.A                       | 3                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3819 | N.A                          | N.A                       | 1                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 87831-3820 | N.A                          | N.A                       | 2                        | YES             | N.A            | YES    | N.A        | YES    | N.A                 | 36.00 | 38.85     | 40.65 | 39.00 | 32.00 | N.A | 2.50 | 3.60±0.20 |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3821 | N.A                          | N.A                       | 3                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3836 | N.A                          | N.A                       | 4                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3828 | N.A                          | N.A                       | 2                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3829 | N.A                          | N.A                       | 3                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 87831-4019 | N.A                          | N.A                       | 1                        | YES             | N.A            | YES    | N.A        | YES    | N.A                 | 38.00 | 40.85     | 42.65 | 41.00 | 34.00 | N.A | 2.50 | 3.60±0.20 |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-4020 | N.A                          | N.A                       | 2                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-4021 | N.A                          | N.A                       | 3                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-4036 | N.A                          | N.A                       | 4                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-4028 | N.A                          | N.A                       | 2                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 87831-4029 | N.A                          | N.A                       | 3                        | YES             | N.A            | YES    | N.A        | YES    | YES                 |       |           |       |       |       |     | 2.50 |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-4010 | N.A                          | N.A                       | 2                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-4010 | N.A                          | N.A                       | 2                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-4010 | N.A                          | N.A                       | 2                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-4010 | N.A                          | N.A                       | 2                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| PLATING OPTIONS:<br>1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.<br>2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.<br>3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.<br>4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL. |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |   |   |  |



|                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------|--------------------------|-----------------|----------------|--------|------------|--------|---------------------|-------|-----------|-------|-------|-------|-----|------|-----------|
|                                                                                                                                                                                                                                                                                                                        | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 9                            | 8                         | 7                        | 6               | 5              | 4      | 3          | 2      | 1                   |       |           |       |       |       |     |      |           |
| 42 TO 50 CIRCUITS                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
| F                                                                                                                                                                                                                                                                                                                      | CKT SIZE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ASSY P/N WITHOUT CAP IN TUBE | ASSY P/N WITH CAP IN TUBE | ASSY P/N WITH CAP IN T&R | PLATING OPTIONS | FRICTION LOCKS |        | SIDE SLOTS |        | CENTER POLARIZATION | PEG   | DIMENSION |       |       |       |     |      | F         |
|                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                           |                          |                 | DUAL           | CENTER | DUAL       | SINGLE |                     |       | A         | B     | C     | D     | E   | F    |           |
| 42                                                                                                                                                                                                                                                                                                                     | 87831-4219                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 1                        | YES             | N.A            | YES    | N.A        | YES    | N.A                 | 40.00 | 42.85     | 44.65 | 43.00 | 36.00 | N.A | 2.50 | 3.60±0.20 |
|                                                                                                                                                                                                                                                                                                                        | 87831-4220                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 2                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                        | 87831-4221                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 3                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                        | 87831-4236                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 4                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                        | 87831-4228                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 2                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
| 42                                                                                                                                                                                                                                                                                                                     | 87831-4229                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 3                        | YES             | N.A            | YES    | N.A        | YES    | YES                 |       |           |       |       |       |     | 2.50 |           |
|                                                                                                                                                                                                                                                                                                                        | 87831-4419                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 1                        | YES             | N.A            | YES    | N.A        | YES    | N.A                 | 42.00 | 44.85     | 46.65 | 45.00 | 38.00 | N.A | 2.50 | 3.60±0.20 |
|                                                                                                                                                                                                                                                                                                                        | 87831-4420                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 2                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                        | 87831-4421                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 3                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                        | 87831-4436                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 4                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
| 87831-4428                                                                                                                                                                                                                                                                                                             | N.A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | N.A                          | 2                         |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
| 44                                                                                                                                                                                                                                                                                                                     | 87831-4429                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 3                        | YES             | N.A            | YES    | N.A        | YES    | YES                 |       |           |       |       |       |     | 2.50 |           |
|                                                                                                                                                                                                                                                                                                                        | 87831-4435                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 3                        | YES             | N.A            | YES    | N.A        | YES    | YES                 |       |           |       |       |       |     | 3.50 |           |
|                                                                                                                                                                                                                                                                                                                        | 87831-4619                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 1                        | YES             | N.A            | YES    | N.A        | YES    | N.A                 | 44.00 | 46.85     | 48.65 | 47.00 | 40.00 | N.A | 2.50 | 3.60±0.20 |
|                                                                                                                                                                                                                                                                                                                        | 87831-4620                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 2                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                        | 87831-4621                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 3                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
| 87831-4636                                                                                                                                                                                                                                                                                                             | N.A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | N.A                          | 4                         |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
| 87831-4628                                                                                                                                                                                                                                                                                                             | N.A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | N.A                          | 2                         |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
| 46                                                                                                                                                                                                                                                                                                                     | 87831-4629                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 3                        | YES             | N.A            | YES    | N.A        | YES    | YES                 |       |           |       |       |       |     | 2.50 |           |
|                                                                                                                                                                                                                                                                                                                        | 87831-4819                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 1                        | YES             | N.A            | YES    | N.A        | YES    | N.A                 | 46.00 | 48.85     | 50.65 | 49.00 | 42.00 | N.A | 2.50 | 3.60±0.20 |
|                                                                                                                                                                                                                                                                                                                        | 87831-4820                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 2                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                        | 87831-4821                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 3                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                        | 87831-4836                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 4                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
| 87831-4828                                                                                                                                                                                                                                                                                                             | N.A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | N.A                          | 2                         |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
| 48                                                                                                                                                                                                                                                                                                                     | 87831-4829                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 3                        | YES             | N.A            | YES    | N.A        | YES    | YES                 |       |           |       |       |       |     | 2.50 |           |
|                                                                                                                                                                                                                                                                                                                        | 87831-5019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 1                        | YES             | N.A            | YES    | N.A        | YES    | N.A                 | 48.00 | 50.85     | 52.65 | 51.00 | 44.00 | N.A | 2.50 | 3.60±0.20 |
|                                                                                                                                                                                                                                                                                                                        | 87831-5020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 2                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                        | 87831-5021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 3                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                        | 87831-5036                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 4                        |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
| 87831-5028                                                                                                                                                                                                                                                                                                             | N.A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | N.A                          | 2                         |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
| 50                                                                                                                                                                                                                                                                                                                     | 87831-5029                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 3                        | YES             | N.A            | YES    | N.A        | YES    | YES                 |       |           |       |       |       |     | 2.50 |           |
|                                                                                                                                                                                                                                                                                                                        | 87831-5035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                          | N.A                       | 3                        | YES             | N.A            | YES    | N.A        | YES    | YES                 |       |           |       |       |       |     | 3.50 |           |
|                                                                                                                                                                                                                                                                                                                        | PLATING OPTIONS:<br>1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.<br>2 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.<br>3 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.<br>4 - 2.50um/100uin MIN. MATTE TIN OVER 1.25um/50uin MIN. NICKEL OVERALL. |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                        | SEE SHEET 1.2,4,6,8-10<br>EC NO. 2017-0022<br>DRWN:GEMARLY 2016/07/04<br>CHKD:SCHEONG 2016/07/27<br>APPR:KHL IM 2016/07/28<br>REV A5                                                                                                                                                                                                                                                                                                                                                                          |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                        | QUALITY SYMBOLS<br>V=0<br>V=0<br>V=0                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
| GENERAL TOLERANCES (UNLESS SPECIFIED)<br>mm INCH<br>4 PLACES ±--- ±---<br>3 PLACES ±--- ±---<br>2 PLACES ±0.20 ±---<br>1 PLACE ±--- ±---<br>0 PLACE ±--- ±---<br>ANGULAR ± 3 °<br>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
| DIMENSION STYLE<br>MM ONLY<br>DRAWN BY DATE<br>GEMARLY 2015/04/15<br>CHECKED BY DATE<br>CGOH 2015/06/29<br>APPROVED BY DATE<br>KHL IM 2015/06/29<br>MATERIAL NO.<br>SEE TABLE<br>SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
| SCALE<br>NTS<br>DESIGN UNITS<br>METRIC<br>THIRD ANGLE PROJECTION<br>MILLIGRID<br>2MM PITCH, THROUGH HOLE<br>VERTICAL SHROUDED HEADER<br>molex<br>DOCUMENT NO.<br>SD-87831-0001<br>SHEET NO.<br>13 OF 13                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
| A                                                                                                                                                                                                                                                                                                                      | b_frame_A3_P_AM_T<br>Rev. G 2012/01/11                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |                           |                          |                 |                |        |            |        |                     |       |           |       |       |       |     |      |           |
|                                                                                                                                                                                                                                                                                                                        | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8                            | 7                         | 6                        | 5               | 4              | 3      | 2          | 1      |                     |       |           |       |       |       |     |      |           |