

## Excellent Integrated System Limited

Stocking Distributor

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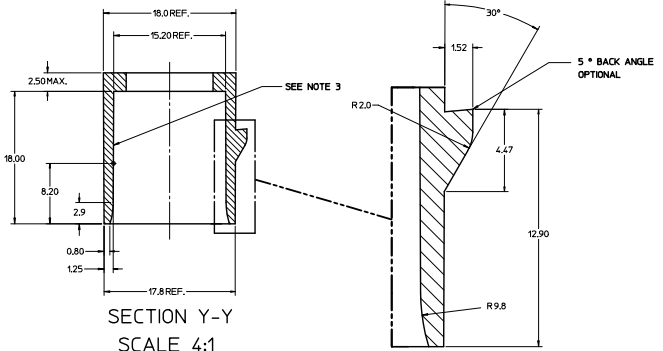
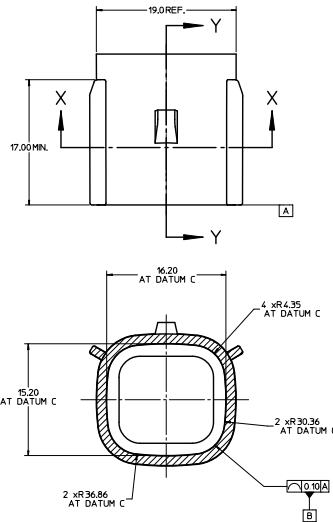
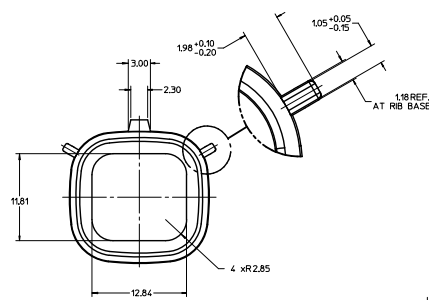
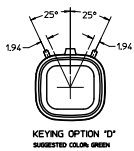
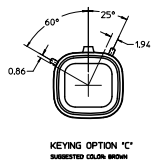
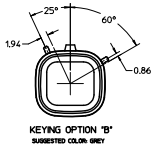
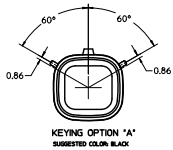
For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

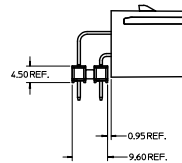
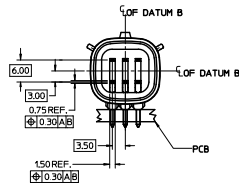
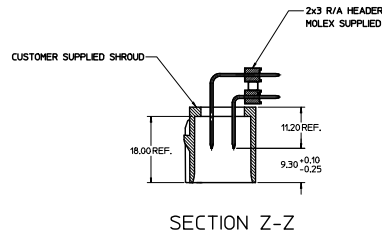
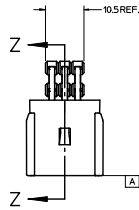
# CUSTOMER SHROUD DESIGN DETAILS

## NOTES:

1. REFER TO MOLEX SALES DRAWING SD-75900-001 FOR THE R/A HEADER ASSEMBLY PRODUCT DETAILS AND RECOMMENDED PCB LAYOUT.
2. KEYING OPTIONS A-D AND SUGGESTED COLORS COMPLY TO THE POLARIZATION STANDARDS ESTABLISHED FOR MATING WITH A MX150 FEMALE CONNECTOR.
3. INTERIOR SHROUD SURFACE MUST BE FREE OF DEFECTS AND PARTING LINES ALL AROUND TO ENSURE PROPER SEALING OF THE MATING MX150 FEMALE CONNECTOR.
4. A FULL SHROUD ON THE MATING CONNECTOR IS REQUIRED TO INSURE THE HEADER SHROUD POLARIZATION FEATURES (OPTIONS A-D) WILL FUNCTION PROPERLY. THE FULL SHROUD ALSO PREVENTS SCOPING DAMAGE TO THE HEADER CONTACTS.
5. PERMISSIBLE DRAFT ANGLE 0.25/0.04/0.015 MAXIMUM.
6. RADI ON ALL CORNERS SHOWN SHARP OR ALL UNSPECIFIED RADI 0.25 EXCEPT AS NOTED.
7. DIMENSIONS SHOWN ABOUT A CENTERLINE ARE SYMMETRICAL ABOUT THAT CENTERLINE WITHIN HALF THE SPECIFIED TOLERANCE.



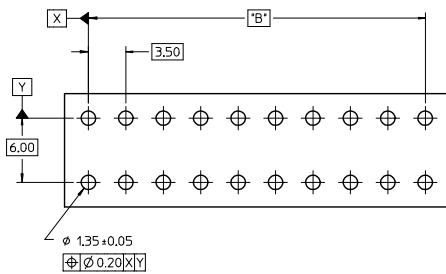
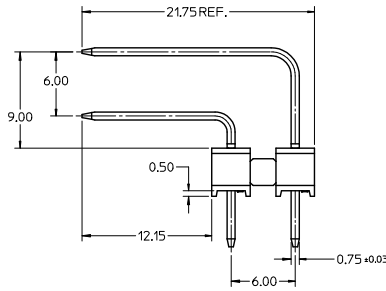
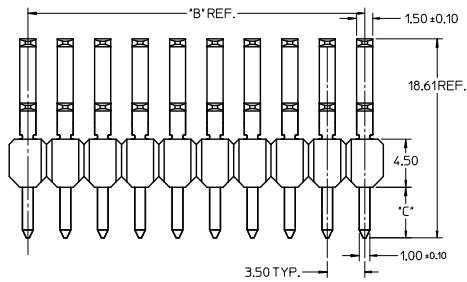
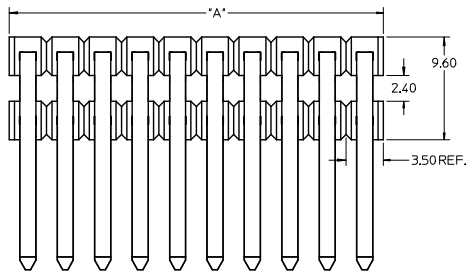
| CHANGE CLASS |                   | QUALITY SYMBOLS |             | GENERAL TOLERANCES (UNLESS SPECIFIED) |         | DIMENSION STYLE                                      |              | SCALE                                                                                                                         |              | DESIGN UNITS |                  | THIRD ANGLE PROJECTION |                      |
|--------------|-------------------|-----------------|-------------|---------------------------------------|---------|------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|------------------|------------------------|----------------------|
| CLASS        | DESCRIPTION       | CLASS           | DESCRIPTION | 4 PLACES                              | ± 0.005 | MM ONLY                                              | DRAWN BY     | 2:1                                                                                                                           | METRIC       | DATE         | TITLE            | DATE                   | PROJECT NO.          |
| EC           | NO. 10/27/02-0066 | DRUSLA          | 2011/09/16  | 3 PLACES                              | ± 0.010 | INCH                                                 | CHECKED BY   | DATE                                                                                                                          | DATE         | DATE         | APPLICATION SPEC | DATE                   | 2X3 MX150 R/A HEADER |
| B            | CHND              | JCOMERC I       | 2011/09/16  | 2 PLACES                              | ± 0.020 | INCH                                                 | APPROVED BY  | DATE                                                                                                                          | DATE         | DATE         | SHROUD DETAILS   | DATE                   | MOLEX INCORPORATED   |
| APPR         | COMERC I          | JCOMERC I       | 2011/09/16  | 1 PLACE                               | ± 0.050 | INCH                                                 | MATERIAL NO. | 75900-2030                                                                                                                    | DOCUMENT NO. | AS-75900-203 | SHEET NO.        | 1 OF 2                 | MOLEX INCORPORATED   |
| REV          | DESCRIPTION       | DATE            | DATE        | ANGULAR ± 1/2°                        |         | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |              | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |              |                  |                        |                      |



HEADER APPLICATION DETAILS

NOTES:  
1. ADHERENCE TO THE HEADER APPLICATION DETAILS IS IMPERATIVE TO ENSURE PROPER SHROUD SEALING AND CONTACT ALIGNMENT WHEN MATED WITH A MX150 FEMALE CONNECTOR.

|                                                                         |                               |                                                                                                                                  |        |      |  |                            |                              |                                        |                        |                           |  |
|-------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------|------|--|----------------------------|------------------------------|----------------------------------------|------------------------|---------------------------|--|
| ENTER DESCRIPTION<br>EC NO. UEP202-0866<br>B<br>CHOC<br>APPROVED<br>REV | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                            |        |      |  | DIMENSION STYLE<br>MM ONLY |                              | SCALE<br>2:1                           | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |
|                                                                         |                               | mm                                                                                                                               |        | INCH |  | DRAWN BY<br>DROSCLA        | DATE<br>04/26/07             | TITLE<br>APPLICATION SPEC              |                        |                           |  |
|                                                                         |                               | 4 PLACES                                                                                                                         | ± 0.10 |      |  | CHECKED BY<br>JCOMERC I    | DATE<br>04/26/07             | 2X3 MX150 R/A HEADER<br>SHROUD DETAILS |                        |                           |  |
|                                                                         |                               | 3 PLACES                                                                                                                         | ± 0.20 |      |  | APPROVED BY<br>JCOMERC I   | DATE<br>04/26/07             | MOLEX INCORPORATED                     |                        |                           |  |
|                                                                         |                               | 1 PLACE                                                                                                                          | ± 0.2  |      |  | MATERIAL NO.<br>75900-2030 | DOCUMENT NO.<br>AS-75900-203 | SHEET NO.<br>2 OF 2                    |                        |                           |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS              |                               | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO<br>MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |        |      |  |                            |                              |                                        |                        |                           |  |



RECOMMENDED PCB LAYOUT

## NOTES:

1. TERMINAL MAT'L: ALLOY C26000, CARTRIDGE BRASS
2. WAFER MAT'L: 30% GLASS FILLED LCP, 94V-0, COLOR BLACK.
3. TERMINAL PLATING:  
OPTION 4 - 1.5µm MIN MATTE TIN OVERALL OVER 1.25µm NICKEL OVERALL  
OPTION 1 - 2.5µm MIN MATTE TIN OVERALL OVER 1.25µm NICKEL OVERALL  
OPTION 2 - 1.25µm NICKEL OVERALL 2.5µm MIN SELECT MATTE TIN PC TAIL  
AREA 0.05-0.25µm SELECT GOLD CONTACT AREA  
OPTION 3 - 1.25µm NICKEL OVERALL 2.5µm MIN SELECT MATTE TIN PC TAIL  
AREA 0.75µm SELECT GOLD CONTACT AREA
4. HEADER ASSEMBLIES ARE TUBE PACKAGED PER PK-36518-351.

| PKT SIZE | PLATING OPTION | MATERIAL NUMBER | 'A' DIM | 'B' DIM  | 'C' DIM | MATERIAL NUMBER | 'A' DIM | 'B' DIM  | 'C' DIM |
|----------|----------------|-----------------|---------|----------|---------|-----------------|---------|----------|---------|
| 2 x 2    | 1              | 75900-1121      | 7.0     | 3.50 REF |         | 75900-1122      | 7.0     | 3.50 REF |         |
|          | 2              | 75900-1221      |         |          |         | 75900-1222      |         |          |         |
|          | 3              | 75900-1321      |         |          |         | 75900-1322      |         |          |         |
|          | 4              | 75900-1421      |         |          |         | 75900-1422      |         |          |         |
| 2 x 3    | 1              | 75900-1131      | 10.5    | 7.00     |         | 75900-1132      | 10.5    | 7.00     |         |
|          | 2              | 75900-1231      |         |          |         | 75900-1232      |         |          |         |
|          | 3              | 75900-1331      |         |          |         | 75900-1332      |         |          |         |
|          | 4              | 75900-1431      |         |          |         | 75900-1432      |         |          |         |
| 2 x 4    | 1              | 75900-1141      | 14.0    | 10.50    |         | 75900-1142      | 14.0    | 10.50    |         |
|          | 2              | 75900-1241      |         |          |         | 75900-1242      |         |          |         |
|          | 3              | 75900-1341      |         |          |         | 75900-1342      |         |          |         |
|          | 4              | 75900-1441      |         |          |         | 75900-1442      |         |          |         |
| 2 x 5    | 1              | 75900-1151      | 17.5    | 14.00    | 3.05    | 75900-1152      | 17.5    | 14.00    | 4.75    |
|          | 2              | 75900-1251      |         |          |         | 75900-1252      |         |          |         |
|          | 3              | 75900-1351      |         |          |         | 75900-1352      |         |          |         |
|          | 4              | 75900-1451      |         |          |         | 75900-1452      |         |          |         |
| 2 x 6    | 1              | 75900-1161      | 21.0    | 17.50    |         | 75900-1162      | 21.0    | 17.50    |         |
|          | 2              | 75900-1261      |         |          |         | 75900-1262      |         |          |         |
|          | 3              | 75900-1361      |         |          |         | 75900-1362      |         |          |         |
|          | 4              | 75900-1461      |         |          |         | 75900-1462      |         |          |         |
| 2 x 8    | 1              | 75900-1181      | 28.0    | 24.50    |         | 75900-1182      | 28.0    | 24.50    |         |
|          | 2              | 75900-1281      |         |          |         | 75900-1282      |         |          |         |
|          | 3              | 75900-1381      |         |          |         | 75900-1382      |         |          |         |
|          | 4              | 75900-1481      |         |          |         | 75900-1482      |         |          |         |
| 2 x 10   | 1              | 75900-1101      | 35.0    | 31.50    |         | 75900-1102      | 35.0    | 31.50    |         |
|          | 2              | 75900-1201      |         |          |         | 75900-1202      |         |          |         |
|          | 3              | 75900-1301      |         |          |         | 75900-1302      |         |          |         |
|          | 4              | 75900-1401      |         |          |         | 75900-1402      |         |          |         |
| CKT SIZE | PLATING OPTION | MATERIAL NUMBER | 'A' DIM | 'B' DIM  | 'C' DIM | MATERIAL NUMBER | 'A' DIM | 'B' DIM  | 'C' DIM |

PK SPEC UPDATED  
EC NO: 2016-0115  
C DRAINBRO2  
CHKD:  
APPR:KPRASAD  
REV

2016/05/16  
2016/06/03  
DESCRIPTION

QUALITY SYMBOLS  
▽=0  
▽=0  
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)  
mm INCH  
4 PLACES ±--- ±---  
3 PLACES ±--- ±---  
2 PLACES ±0.13 ±---  
1 PLACE ±0.25 ±---  
0 PLACE ± ±  
ANGULAR ±1/2°  
DRAFT WHERE APPLICABLE  
MUST REMAIN WITHIN DIMENSIONS

DRAGON STYLE  
MM ONLY  
DRAWN BY DATE  
TMCLELL 1/25/06  
CHECKED BY DATE  
TMCLELL 1/25/06  
APPROVED BY DATE  
BANAKIS 1/25/06  
MATERIAL NO.  
SEE CHART  
SIZE  
A2

SCALE  
4:1  
DESIGN UNITS  
METRIC  
THIRD ANGLE PROJECTION  
MX150 RIGHT ANGLE  
DUAL ROW UNSHROUDED  
HEADER ASSEMBLY  
molex  
DOCUMENT NO.  
SD-75900-001  
SHEET NO.  
1 OF 1