



**Distributor of Molex Connector Corporation: Excellent Integrated System Limited**  
Datasheet of 0873819003 - Connector Receptacle 8 Position 0.079" (2.00mm) Gold Surface Mount

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## Excellent Integrated System Limited

Stocking Distributor

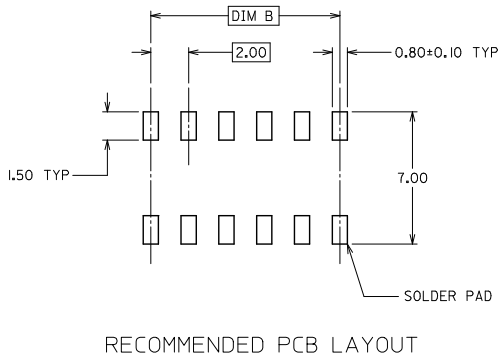
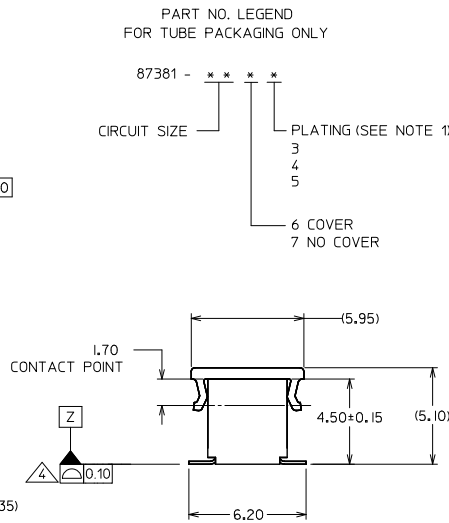
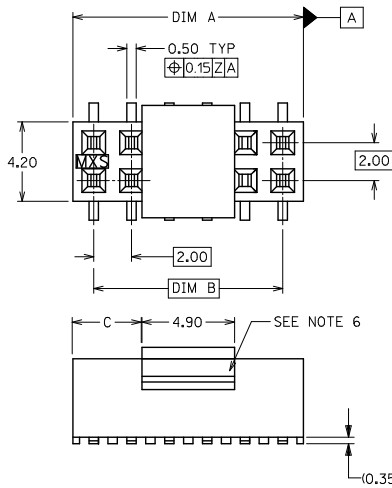
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Molex Connector Corporation](#)  
[0873819003](#)

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RECOMMENDED PCB LAYOUT

PART NO. LEGEND  
FOR TUBE PACKAGING ONLY

87381 - \* \* \* \*  
CIRCUIT SIZE - \* \* \* \*  
PLATING (SEE NOTE 1)  
3  
4  
5  
6 COVER  
7 NO COVER

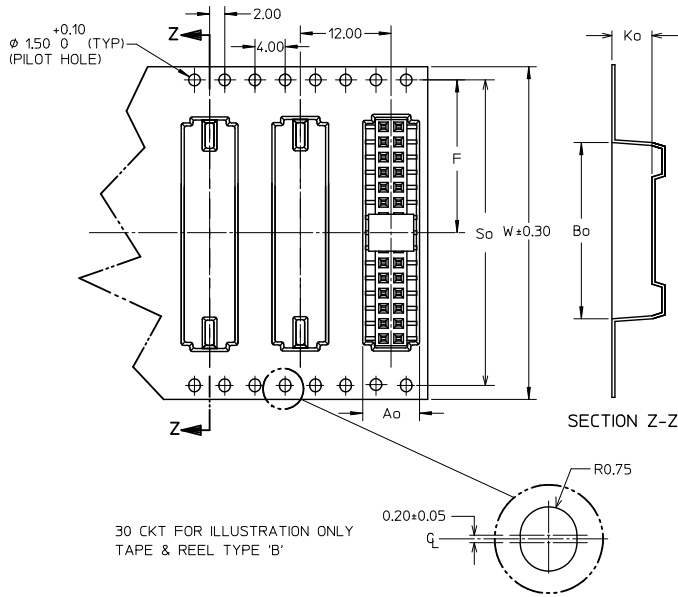
| PART NUMBER | CKT. SIZE | DIM A | DIM B | DIM C |
|-------------|-----------|-------|-------|-------|
| 87381-06**  | 6         | 6.00  | 4.00  | 0.55  |
| 87381-08**  | 8         | 8.00  | 6.00  | 1.55  |
| 87381-10**  | 10        | 10.00 | 8.00  | 2.55  |
| 87381-12**  | 12        | 12.00 | 10.00 | 3.55  |
| 87381-14**  | 14        | 14.00 | 12.00 | 4.55  |
| 87381-16**  | 16        | 16.00 | 14.00 | 5.55  |
| 87381-18**  | 18        | 18.00 | 16.00 | 6.55  |
| 87381-20**  | 20        | 20.00 | 18.00 | 7.55  |
| 87381-22**  | 22        | 22.00 | 20.00 | 8.55  |
| 87381-24**  | 24        | 24.00 | 22.00 | 9.55  |
| 87381-26**  | 26        | 26.00 | 24.00 | 10.55 |
| 87381-28**  | 28        | 28.00 | 26.00 | 11.55 |
| 87381-30**  | 30        | 30.00 | 28.00 | 12.55 |
| 87381-32**  | 32        | 32.00 | 30.00 | 13.55 |
| 87381-34**  | 34        | 34.00 | 32.00 | 14.55 |
| 87381-36**  | 36        | 36.00 | 34.00 | 15.55 |
| 87381-38**  | 38        | 38.00 | 36.00 | 16.55 |
| 87381-40**  | 40        | 40.00 | 38.00 | 17.55 |
| 87381-42**  | 42        | 42.00 | 40.00 | 18.55 |
| 87381-44**  | 44        | 44.00 | 42.00 | 19.55 |
| 87381-46**  | 46        | 46.00 | 44.00 | 20.55 |
| 87381-48**  | 48        | 48.00 | 46.00 | 21.55 |
| 87381-50**  | 50        | 50.00 | 48.00 | 22.55 |

NOTES:

- PLATING FINISH:  
3 - 0.76um MIN. GOLD IN CONTACT AREA 1.27um MIN. TIN  
IN SOLDER TAIL AREA BOTH OVER 1.27um MIN. NICKEL OVERALL  
4 - 0.38um MIN. GOLD IN CONTACT AREA 1.27um MIN. TIN  
IN SOLDER TAIL AREA BOTH OVER 1.27um MIN. NICKEL OVERALL  
5 - 0.05um MIN. GOLD FLASH IN CONTACT AREA 1.90um MIN. TIN  
IN SOLDER TAIL AREA BOTH OVER 1.27um MIN. NICKEL OVERALL
- 12 CKT SIZE SHOWN FOR ASSY ILLUSTRATION ONLY. (SEE CHART FOR ALL PART SIZES). 6 CKT & 30 CKT ILLUSTRATED FOR TAPE/REEL VERSION ON SHT 2.
- PRODUCT SPECIFICATION PS-87380 APPLIES.  
COPLANARITY OF SOLDER TAILS ARE TO BE MEASURED BY RESTING THE PART ON A FLAT GAUGE SURFACE  $\uparrow +0.05$  UPWARDS AND  $\downarrow -0.05$  DOWNWARDS.
- TUBE PACKAGING STANDARD.
- COVER IS OPTIONAL, SEE LEGEND.
- PARTS SHALL BE PACKED IN MOISTURE BARRIER BAG.
- REFER SHT 3 FOR P/N: 87381-6000 T&R ILLUSTRATION.

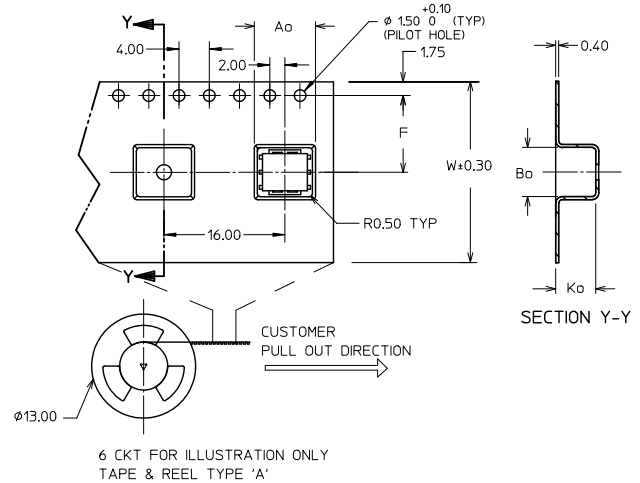
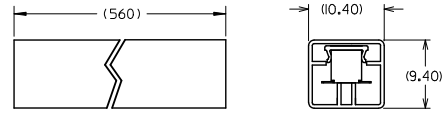
|                                                                                   |             |                 |                                                            |                                                                                                                               |       |                 |            |                                                                                                          |              |                                                                                                              |               |           |
|-----------------------------------------------------------------------------------|-------------|-----------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------|-----------------|------------|----------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------|---------------|-----------|
| REVISE NOTE 4.<br>IEC NO: S2012-0026<br>DRUNKANG<br>CHKOATSEE<br>APPR-HUNG<br>E11 | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |                                                                                                                               |       | DIMENSION STYLE |            | SCALE                                                                                                    | DESIGN UNITS |  THIRD ANGLE PROJECTION |               |           |
|                                                                                   |             |                 |                                                            |                                                                                                                               |       | MM ONLY         |            | NTS                                                                                                      | METRIC       |                                                                                                              |               |           |
|                                                                                   |             |                 |                                                            | mm                                                                                                                            | INCH  | DRAWN BY        | DATE       | TITLE<br>MGRID, TOP ENTRY RECEPT.<br>4.50MM HT., SMT                                                     |              |                                                                                                              |               |           |
|                                                                                   |             |                 | 4 PLACES                                                   | ± ---                                                                                                                         | ± --- | JAMES           | 1998/01/08 |                                                                                                          |              |                                                                                                              |               |           |
|                                                                                   |             |                 | 3 PLACES                                                   | ± ---                                                                                                                         | ± --- | CHECKED BY      | DATE       |                                                                                                          |              |                                                                                                              |               |           |
|                                                                                   |             |                 | 2 PLACES                                                   | ± 0.20                                                                                                                        | ± --- | LCHANG          | 1999/04/23 |                                                                                                          |              |                                                                                                              |               |           |
|                                                                                   |             |                 | 1 PLACE                                                    | ± ---                                                                                                                         | ± --- | APPROVED BY     | DATE       |  MOLEX INCORPORATED |              |                                                                                                              |               |           |
|                                                                                   |             |                 | ANGULAR ± 3 °                                              |                                                                                                                               |       | SQUEK           | 1999/04/26 |                                                                                                          |              |                                                                                                              |               |           |
|                                                                                   |             |                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                               |       | MATERIAL NO.    |            |                                                                                                          |              |                                                                                                              | DOCUMENT NO.  | SHEET NO. |
|                                                                                   |             |                 |                                                            |                                                                                                                               |       | SEE TABLE       |            |                                                                                                          |              |                                                                                                              | SD-87381-**6* | 1 OF 4    |
|                                                                                   |             |                 | SIZE                                                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |       |                 |            |                                                                                                          |              |                                                                                                              |               |           |

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30 CKT FOR ILLUSTRATION ONLY  
TAPE & REEL TYPE 'B'

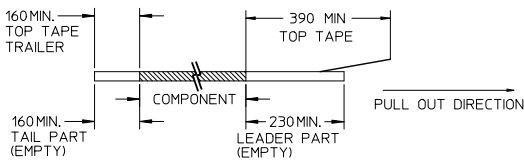
CONNECTOR ORIENTATION  
IN TUBE



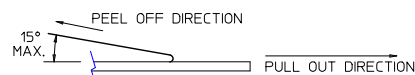
6 CKT FOR ILLUSTRATION ONLY  
TAPE & REEL TYPE 'A'

NOTES:

1. LEADER AND TRAILER TAPE



2. PEELING OFF FORCE OF THE TOP TAPE: 20-80gf.  
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



3. PACKAGING STANDARD IS AS PER EIA-481.

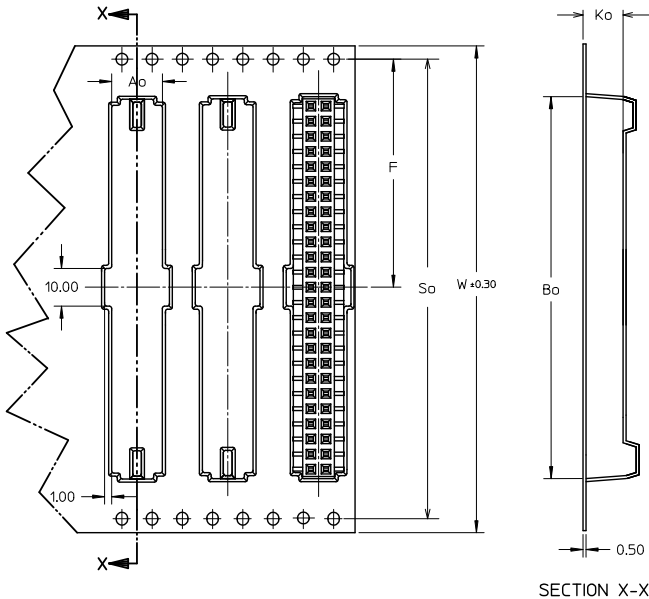
4. TAPE & REEL QUANTITY = SEE TABLE

|                                                                                      |                    |                 |                                                                                                                               |      |                            |                    |                                |                                                      |                           |  |
|--------------------------------------------------------------------------------------|--------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------|------|----------------------------|--------------------|--------------------------------|------------------------------------------------------|---------------------------|--|
| REVISE NOTE 4.<br>EC NO: S2012-0026<br>DRAWN:KANG<br>CHKD:ATSEE<br>APPR:HLONG<br>E11 | DESCRIPTION<br>REV | 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>JAMES  | DATE<br>1998/01/08             | TITLE<br>MGRID, TOP ENTRY RECEPT.<br>4.50MM HT., SMT |                           |  |
|                                                                                      |                    |                 | 4 PLACES ±---                                                                                                                 | ±--- | CHECKED BY<br>LCHANG       | DATE<br>1999/04/23 |                                |                                                      |                           |  |
|                                                                                      |                    |                 | 3 PLACES ±---                                                                                                                 | ±--- | APPROVED BY<br>SQUEK       | DATE<br>1999/04/26 |                                |                                                      |                           |  |
|                                                                                      |                    |                 | 2 PLACES ±0.20                                                                                                                | ±--- |                            |                    |                                |                                                      |                           |  |
|                                                                                      |                    |                 | 1 PLACE ±---                                                                                                                  | ±--- |                            |                    |                                |                                                      |                           |  |
|                                                                                      |                    |                 | ANGULAR ± 3 °                                                                                                                 |      |                            |                    |                                |                                                      |                           |  |
|                                                                                      |                    |                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                    |      | MATERIAL NO.<br>SEE TABLE  |                    | DOCUMENT NO.<br>SD-87381-***6* |                                                      | SHEET NO.<br>2 OF 4       |  |
|                                                                                      |                    | SIZE<br>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                |                  |
|----------|---------------------------|----------------------------------|----|-------|------|-------|-------|------|------------------|------------------|
| CKT SIZE | PART NO. WITH CAP IN TUBE | PART NO. WITH CAP IN TAPE / REEL | W  | So    | Ao   | F     | Bo    | Ko   | T&R TYPE (SHT 2) | T&R QTY PER REEL |
| 6        | 87381-0664                | 87381-9002                       | 24 | -     | 7.00 | 11.50 | 6.50  | 5.30 | A                | 500              |
| 8        | 87381-0864                | 87381-9003                       | 24 | -     | 7.00 | 11.50 | 8.50  | 5.30 | A                | 600              |
| 10       | 87381-1064                | 87381-9005                       | 24 | -     | 7.00 | 11.50 | 10.50 | 5.30 | A                | 680              |
| 14       | 87381-1464                | 87381-9006                       | 32 | 28.40 | 7.20 | 14.20 | 14.50 | 5.30 | B                | 750              |
| 16       | 87381-1664                | 87381-9004                       | 32 | 28.40 | 7.20 | 14.20 | 16.50 | 5.30 | B                | 800              |
| 18       | 87381-1864                | 87381-1800                       | 32 | 28.40 | 7.20 | 14.20 | 18.50 | 5.30 | B                | 750              |
| 20       | 87381-2063                | 87381-2000                       | 32 | 28.40 | 7.20 | 14.20 | 20.50 | 5.30 | B                | 800              |
| 22       | 87381-2264                | 87381-2200                       | 44 | 40.40 | 7.20 | 20.20 | 22.50 | 5.30 | B                | 500              |
| 30       | 87381-3064                | 87381-3000                       | 44 | 40.40 | 7.20 | 20.20 | 30.50 | 5.30 | B                | 500              |
| 32       | 87381-3264                | 87381-3200                       | 44 | 40.40 | 7.20 | 20.20 | 32.50 | 5.30 | B                | 500              |
| 34       | 87381-3464                | 87381-3400                       | 56 | 52.40 | 7.20 | 26.20 | 34.50 | 5.30 | B                | 500              |
| 44       | 87381-4464                | 87381-4400                       | 56 | 52.40 | 7.20 | 26.20 | 44.50 | 5.30 | B                | 500              |
| 46       | 87381-4664                | 87381-4600                       | 72 | 68.40 | 7.20 | 34.20 | 46.50 | 5.30 | B                | 750              |
| 50       | 87381-5063                | 87381-5030                       | 72 | 68.40 | 7.20 | 34.20 | 50.50 | 5.30 | B                | 500              |
| 50       | 87381-5064                | 87381-5000                       | 72 | 68.40 | 7.20 | 34.20 | 50.50 | 5.30 | B                | 500              |

|                                                                                       |  |             |                 |                                                                                                                                  |        |                |                            |            |                                             |                        |                           |  |  |
|---------------------------------------------------------------------------------------|--|-------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------|--------|----------------|----------------------------|------------|---------------------------------------------|------------------------|---------------------------|--|--|
| REVISE NOTE 4.<br>EC NO: S2012-0026<br>DRAWN:SKANG<br>CHKD:ATSEE<br>APPR:HLONG<br>E11 |  | 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                   | DATE       | TITLE                                       |                        |                           |  |  |
|                                                                                       |  |             |                 | 4 PLACES                                                                                                                         | ± ---  | ± ---          | JAMES                      | 1998/01/08 | MGRID, TOP ENTRY RECEPT.<br>4.50MM HT., SMT |                        |                           |  |  |
|                                                                                       |  |             |                 | 3 PLACES                                                                                                                         | ± ---  | ± ---          | CHECKED BY                 | DATE       |                                             |                        |                           |  |  |
|                                                                                       |  |             |                 | 2 PLACES                                                                                                                         | ± 0.20 | ± ---          | LCHANG                     | 1999/04/23 |                                             |                        |                           |  |  |
|                                                                                       |  |             |                 | 1 PLACE                                                                                                                          | ± ---  | ± ---          | APPROVED BY                | DATE       | molex                                       | MOLEX INCORPORATED     |                           |  |  |
|                                                                                       |  |             |                 | ANGULAR ± 3 °                                                                                                                    |        | SUOEK          | 1999/04/26                 |            |                                             |                        |                           |  |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                            |  |             |                 | MATERIAL NO.                                                                                                                     |        | DOCUMENT NO.   |                            | SHEET NO.  |                                             |                        |                           |  |  |
|                                                                                       |  |             |                 | SEE TABLE                                                                                                                        |        | SD-87381-***6* |                            | 3 OF 4     |                                             |                        |                           |  |  |
|                                                                                       |  |             |                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |        |                |                            |            |                                             |                        |                           |  |  |

Contact us: [sales@integrated-circuit.com](mailto:sales@integrated-circuit.com) Website: [www.integrated-circuit.com](http://www.integrated-circuit.com)ILLUSTRATION FOR P/N: 87381-6000  
50 CKT IN T&R W/O CAP

| CKT<br>SIZE | PART NO.<br>WITHOUT CAP<br>IN TUBE | PART NO.<br>WITHOUT CAP IN<br>TAPE / REEL | W  | So    | Ao   | F     | Bo    | Ko   | T&R<br>TYPE<br>(SHT 2) | T&R<br>QTY<br>PER REEL |
|-------------|------------------------------------|-------------------------------------------|----|-------|------|-------|-------|------|------------------------|------------------------|
| 50          | 87381-5074                         | 87381-6000 / 8                            | 72 | 68.40 | 6.80 | 34.20 | 50.50 | 8.00 | B                      | 500                    |

|                                                                                        |                    |             |                                                            |               |       |                                                                                                                                             |            |                                                      |                          |                           |  |  |
|----------------------------------------------------------------------------------------|--------------------|-------------|------------------------------------------------------------|---------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------|--------------------------|---------------------------|--|--|
| REVISE NOTE 4.<br>EC NO: S2012-0026<br>DRAWN: KANG<br>CHKD: SEE<br>APPR: M LONG<br>E11 | QUALITY<br>SYMBOLS | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |               |       | DIMENSION STYLE<br>MM ONLY                                                                                                                  |            | SCALE<br>NTS                                         | DESIGN UNITS<br>METRIC   | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                        |                    |             |                                                            | mm            | INCH  | DRAWN BY                                                                                                                                    | DATE       | TITLE<br>MGRID, TOP ENTRY RECEPT.<br>4.50MM HT., SMT |                          |                           |  |  |
|                                                                                        |                    |             | 4 PLACES                                                   | ± ---         | ± --- | JAMES                                                                                                                                       | 1998/01/08 |                                                      |                          |                           |  |  |
|                                                                                        |                    |             | 3 PLACES                                                   | ± ---         | ± --- | CHECKED BY                                                                                                                                  | DATE       |                                                      |                          |                           |  |  |
|                                                                                        |                    |             | 2 PLACES                                                   | ± 0.20        | ± --- | LCHANG                                                                                                                                      | 1999/04/23 |                                                      |                          |                           |  |  |
|                                                                                        |                    |             | 1 PLACE                                                    | ± ---         | ± --- | APPROVED BY                                                                                                                                 | DATE       |                                                      |                          |                           |  |  |
|                                                                                        |                    |             |                                                            | ANGULAR ± 3 ° |       |                                                                                                                                             | SOUK       | 1999/04/26                                           | molex MOLEX INCORPORATED |                           |  |  |
|                                                                                        |                    |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |               |       | MATERIAL NO.<br>SEE TABLE                                                                                                                   |            | DOCUMENT NO.<br>SD-87381-**6*                        |                          | SHEET NO.<br>4 OF 4       |  |  |
|                                                                                        |                    |             |                                                            |               |       | SIZE<br>A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |            |                                                      |                          |                           |  |  |