

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0791098415](#)  
**Status:** **Active**  
**Description:** 2.00mm (.079") Pitch Milli-Grid™ Receptacle, Surface Mount, Vertical, Top/Bottom Entry, without Press-fit Plastic Pegs, with Cap, Embossed Tape on Reel, 0.38μm (15μ") Gold (Au) Selective, 32 Circuits, Leadfree

**Documents:**  
[3D Model](#)  
[Drawing \(PDF\)](#)

[Product Specification PS-79107 \(PDF\)](#)  
[RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
UL E29179

**General**

Product Family PCB Receptacles  
Series [79109](#)  
Application Board-to-Board  
Comments With Cap  
Product Name Milli-Grid™

**Physical**

Circuits (Loaded) 32  
Durability (mating cycles max) 50  
Flammability 94V-0  
Glow-Wire Compliant No  
Lock to Mating Part None  
Material - Metal Phosphor Bronze  
Material - Plating Mating Gold  
Material - Plating Termination Tin  
Number of Rows 2  
Orientation Vertical  
PCB Locator No  
PCB Retention None  
Packaging Type Embossed Tape on Reel  
Pitch - Mating Interface (in) 0.079 In  
Pitch - Mating Interface (mm) 2.00 mm  
Plating min: Mating (μin) 15  
Plating min: Mating (μm) 0.38  
Polarized to Mating Part No  
Polarized to PCB No  
Surface Mount Compatible (SMC) N/A  
Temperature Range - Operating -55°C to +105°C  
Termination Interface: Style Surface Mount

**Electrical**

Current - Maximum per Contact 1A  
Voltage - Maximum 125V

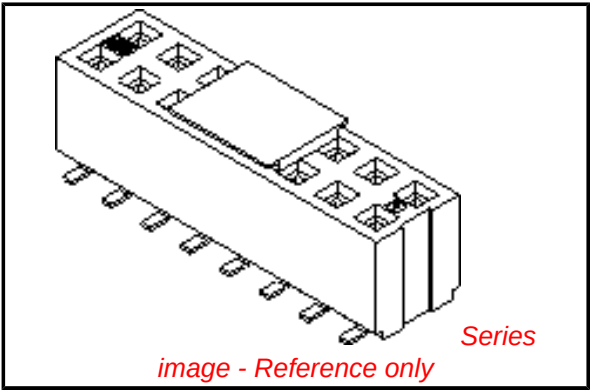
**Solder Process Data**

Lead-free Process Capability Reflow Capable (SMT only)  
Process Temperature max. C 260

**Material Info**

**Reference - Drawing Numbers**

Product Specification PS-79107



**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC**  
Not Reviewed  
**Halogen-Free  
Status**  
**Not Reviewed**

**China RoHS**



**Need more information on product  
environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of  
Compliance, [click here](#)

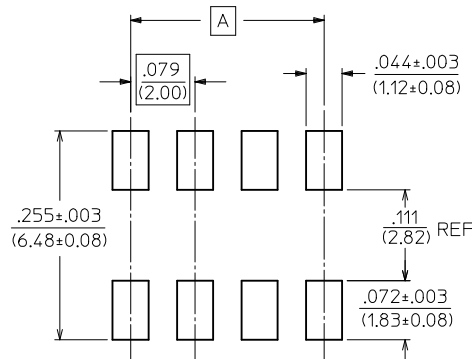
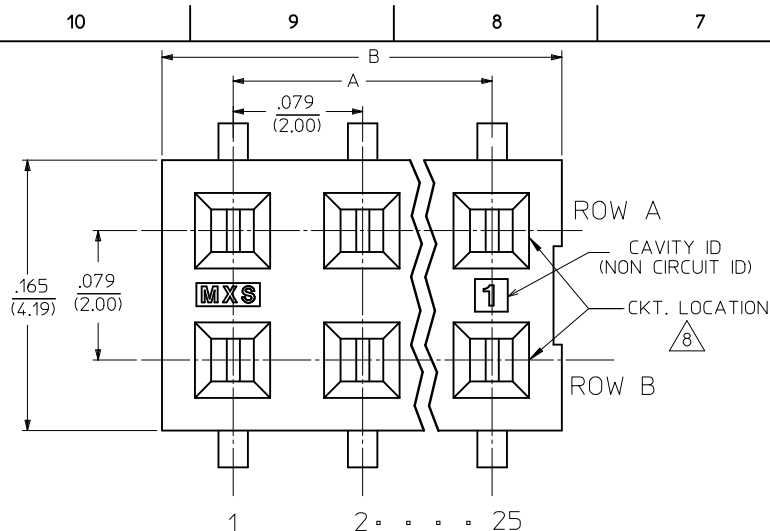
Please visit the [Contact Us](#) section for any  
non-product compliance questions.

**Search Parts in this Series**  
[79109Series](#)

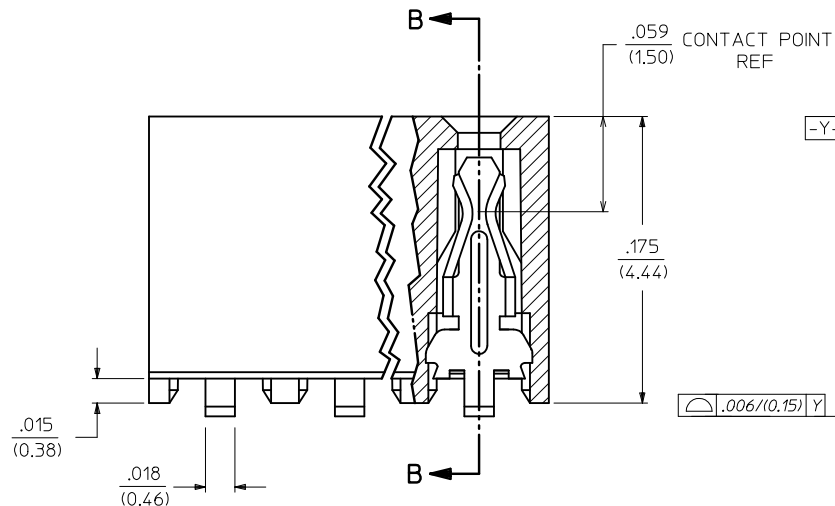
**Mates With**  
[87833](#) , [87832](#) , [87831](#) , [87758](#) , [87759](#) ,  
[87760](#)

This document was generated on 03/18/2010

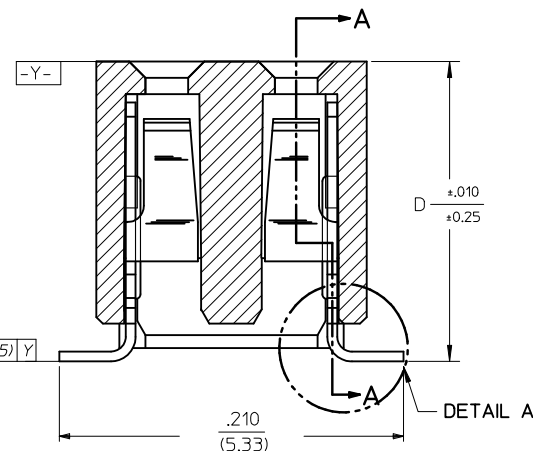
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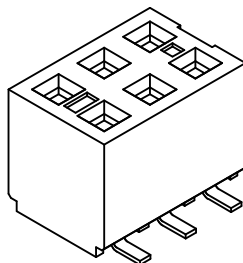
RECOMMENDED PCB PAD LAYOUT



SECTION A-A



SECTION B-B

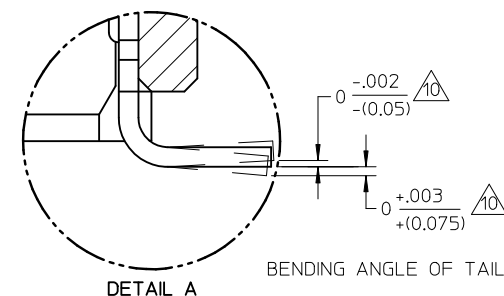


## NOTES:

1. HOUSING MATERIAL:  
LCP, GLASS FILLED, UL 94V-0  
COLOUR BLACK.
2. TERMINAL MATERIAL:  
PHOSPHOR BRONZE
3. SEE APPROPRIATE SHEET FOR CIRCUIT SIZE,  
PART NUMBERS AND OVERALL DIMENSIONS.
4. FOR ILLUSTRATION, 6 CKT ASSY SHOWN.
5. REFER TO PRODUCT SPEC PS-79107.
6. TUBE PACKAGING PER PK-70873-0217 OR  
TAPE PACKAGING PER PK-70873-0259
7. SEE SHT 3 FOR PEG OPTION ASSEMBLIES.
8. CKT LOCATIONS ARE NUMBERED FROM LEFT TO  
RIGHT WHEN VIEWING ASSY FROM TOP WITH  
THE GATE RECESS ON THE RIGHT AS SHOWN.
9. SEE SHT 5 & 6 FOR VOIDED CIRCUIT PART NUMBERS.
10. MEASUREMENT IS TAKEN BETWEEN THE TANGENT OF  
THE TOE TO TIP OF THE TERMINAL.

## PLATING OPTION:

4. 30u" (0.75um) MIN. GOLD PLATE IN SELECTED AREA AND  
75u" (1.88um) MIN. TIN PLATE IN SELECTED AREA OVER  
50u" (1.25um) MIN. NICKEL OVERALL.
5. 15u" (0.38um) MIN. GOLD PLATE IN SELECTED AREA AND  
75u" (1.88um) MIN. TIN PLATE IN SELECTED AREA OVER  
50u" (1.25um) MIN. NICKEL OVERALL.
6. 5u" (0.13um) MIN. GOLD PLATE IN SELECTED AREA AND  
75u" (1.88um) MIN. TIN PLATE IN SELECTED AREA OVER  
50u" (1.25um) MIN. NICKEL OVERALL.



DETAIL A BENDING ANGLE OF TAIL

| REVISED           |  | QUALITY SYMBOLS   |  | GENERAL TOLERANCES (UNLESS SPECIFIED) |  | DIMENSION STYLE |  | SCALE                                                                                                                         |  | DESIGN UNITS             |  | THIRD ANGLE PROJECTION |  |
|-------------------|--|-------------------|--|---------------------------------------|--|-----------------|--|-------------------------------------------------------------------------------------------------------------------------------|--|--------------------------|--|------------------------|--|
| EC NO: S2010-0566 |  | F <sub>A</sub> =0 |  | mm                                    |  | IN/MM           |  | NTS                                                                                                                           |  | INCH                     |  |                        |  |
| 2010/01/05        |  | F <sub>E</sub> =0 |  | 3 PLACES ± ---                        |  | DRAWN BY        |  | DATE                                                                                                                          |  | TITLE                    |  |                        |  |
| 2010/02/03        |  | F <sub>P</sub> =0 |  | 2 PLACES ± 0.25                       |  | CHECKED BY      |  | DATE                                                                                                                          |  | 2MM DUAL ROW             |  |                        |  |
| 2010/02/19        |  |                   |  | 1 PLACE ± 0.38                        |  | APPROVED BY     |  | DATE                                                                                                                          |  | VERTICAL RECEPTACLE, SMT |  |                        |  |
|                   |  |                   |  |                                       |  | MLONG           |  | 2010/02/18                                                                                                                    |  | MOLEX INCORPORATED       |  |                        |  |
|                   |  |                   |  |                                       |  | MATERIAL NO.    |  | DOCUMENT NO.                                                                                                                  |  | SDA-79109-****           |  |                        |  |
|                   |  |                   |  |                                       |  | SIZE            |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                          |  |                        |  |
|                   |  |                   |  |                                       |  | A3              |  |                                                                                                                               |  |                          |  |                        |  |



# ASSEMBLIES WITHOUT PEGS

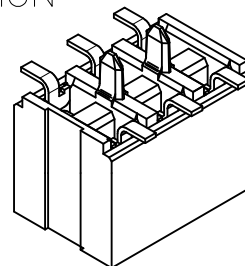
## VOIDED CIRCUIT OPTION

| CKT. SIZE | ASSEMBLY<br>(WITHOUT CAP IN TUBE) | VOID LOCATION(S)<br>SEE SHEET 1 FOR CONVENTION |             | PLATING OPTION | DIM. "A" |         | DIM. "B" |         | DIM. "D" |         |
|-----------|-----------------------------------|------------------------------------------------|-------------|----------------|----------|---------|----------|---------|----------|---------|
|           | PART NUMBER                       | ROW                                            | CKT. NO.(s) |                | INCH     | MM      | INCH     | MM      | INCH     | MM      |
| 22        | 79109-5011                        | A                                              | 2           | 4              | .787     | (20.00) | .874     | (22.19) | .183     | ( 4.65) |
| 6         | 79109-5012                        | A                                              | 2           | 5              | .157     | (4.00)  | .244     | (6.19)  | .183     | ( 4.65) |

| CKT SIZE | ASSEMBLY<br>(WITH CAP A IN T&R) | VOID LOCATION(S)<br>SEE SHEET 1 FOR CONVENTION |         | PLATING OPTION | DIM A |         | DIM B |         | DIM D |        |
|----------|---------------------------------|------------------------------------------------|---------|----------------|-------|---------|-------|---------|-------|--------|
|          | PART NUMBER                     | ROW                                            | CKT NO. |                | INCH  | MM      | INCH  | MM      | INCH  | MM     |
| 50       | 79109-8924                      | A                                              | 13, 23  | 5              | 1.890 | (48.00) | 1.976 | (50.19) | .183  | (4.65) |
|          |                                 | B                                              | 23      |                |       |         |       |         |       |        |

- NOTES:
- TERMINALS WILL BE PRESENT IN VOIDED LOCATIONS. HOWEVER, PIN WINDOWS WILL BE CLOSED.
  - VOIDS CAN ONLY BE PRESENT IN ONE ROW OF A CONNECTOR.

|                                                                                                                               |                                                                                                                             |                                                            |            |                          |                                                                                                                                  |                    |                                                   |                           |           |  |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------|---------------------------|-----------|--|
| REVISED<br>EC NO: S2010-0566<br>2010/01/05<br>DRWN:SKANG<br>2010/02/03<br>CHKD:ATSEE<br>2010/02/19<br>APPR:MLONG<br>REV<br>M6 | DESCRIPTION<br>QUALITY SYMBOLS<br><div><math>F_A=0</math></div> <div><math>F_G=0</math></div> <div><math>F_P=0</math></div> | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |            | DIMENSION STYLE<br>IN/MM |                                                                                                                                  | SCALE<br>NTS       | DESIGN UNITS<br>INCH                              | THIRD ANGLE<br>PROJECTION |           |  |
|                                                                                                                               |                                                                                                                             |                                                            | mm         | INCH                     | DRAWN BY<br>AAB                                                                                                                  | DATE<br>1989/05/15 | TITLE<br>2MM DUAL ROW<br>VERTICAL RECEPTACLE, SMT |                           |           |  |
|                                                                                                                               |                                                                                                                             | 4 PLACES                                                   | $\pm$ ---  | $\pm$ ---                | CHECKED BY                                                                                                                       | DATE               |                                                   |                           |           |  |
|                                                                                                                               |                                                                                                                             | 3 PLACES                                                   | $\pm$ ---  | $\pm$ .010               | MJM                                                                                                                              | 1989/05/15         | MOLEX MOLEX INCORPORATED                          |                           |           |  |
|                                                                                                                               |                                                                                                                             | 2 PLACES                                                   | $\pm$ 0.25 | $\pm$ .015               | APPROVED BY                                                                                                                      | DATE               |                                                   |                           |           |  |
|                                                                                                                               |                                                                                                                             | 1 PLACE                                                    | $\pm$ 0.38 | $\pm$ ---                | MLONG                                                                                                                            | 2010/02/18         |                                                   |                           |           |  |
|                                                                                                                               |                                                                                                                             | ANGULAR $\pm$ 3 °                                          |            | MATERIAL NO.             |                                                                                                                                  | DOCUMENT NO.       | SDA-79109-****                                    |                           | SHEET NO. |  |
|                                                                                                                               |                                                                                                                             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |            | SEE TABLE                |                                                                                                                                  |                    |                                                   | 3 OF 10                   |           |  |
|                                                                                                                               |                                                                                                                             |                                                            |            | SIZE<br>A3               | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                   |                           |           |  |

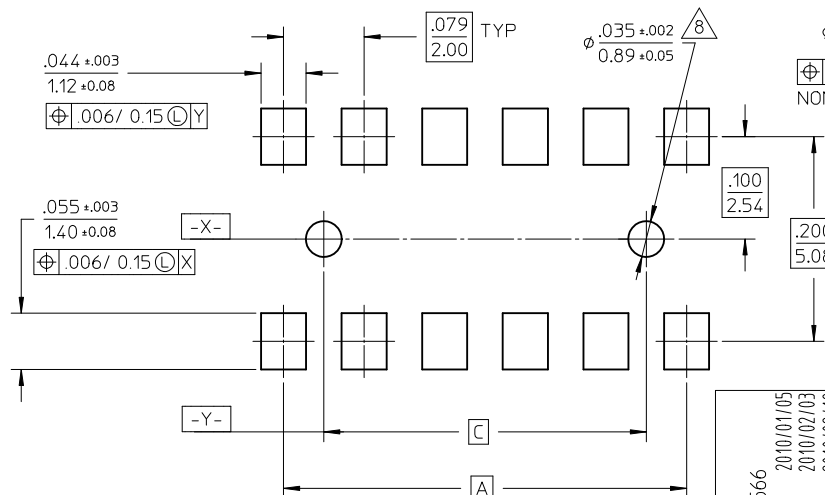
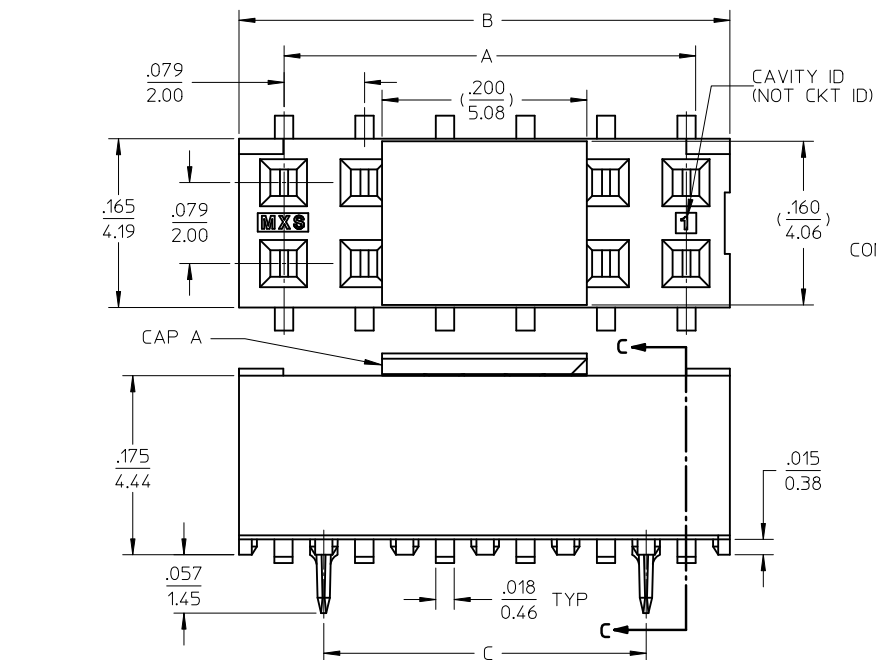
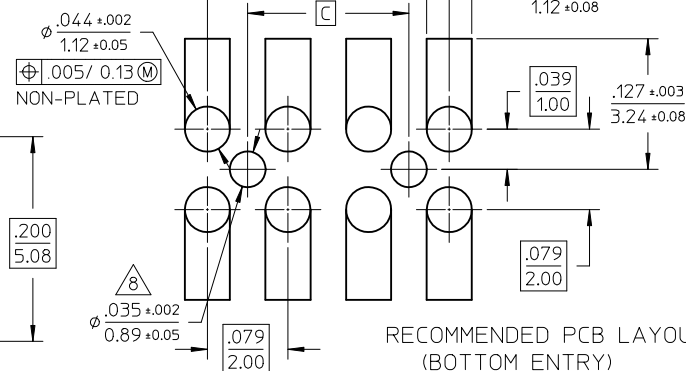
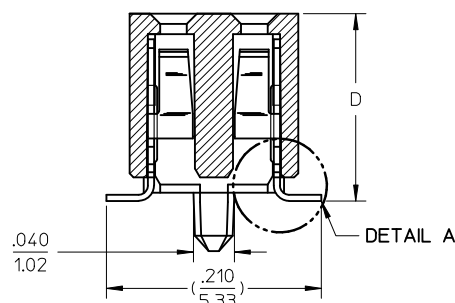
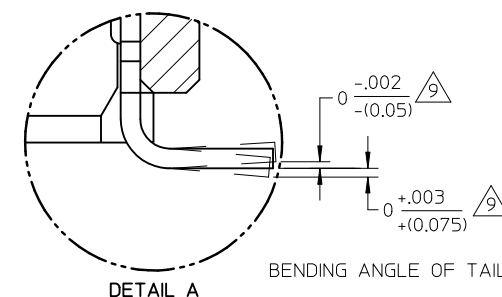


( 4 ) 30uIn (0.75um) MIN. GOLD PLATE IN SELECTED AREA AND  
75uIn (1.88um) MIN. TIN IN SELECTED  
AREA OVER 50uIn (1.25um) MIN. NICKEL OVER-ALL.

( 5 ) 15uIn (0.38um) MIN. GOLD PLATE IN SELECTED AREA AND  
75uIn (1.88um) MIN. TIN IN SELECTED  
AREA OVER 50uIn (1.25um) MIN. NICKEL OVER-ALL.

( 6 ) 5uIn (0.13um) MIN. GOLD PLATE IN SELECTED AREA AND  
75uIn (1.88um) MIN. TIN IN SELECTED  
AREA OVER 50uIn (1.25um) MIN. NICKEL OVER-ALL.

- 1 - HOUSING MATERIAL: GLASS FILLED HIGH TEMP. THERMOPLASTIC. COLOR: BLACK.
- 2 - TERMINAL MATERIAL: PHOSPHOR BRONZE
- 3 - SEE APPROPRIATE SHEET FOR CIRCUIT SIZE, PART NUMBERS AND OVER-ALL DIMENSIONS.
- 4 - FOR ILLUSTRATION, 6&12 CIRCUIT ASSEMBLY SHOWN.
- 5 - REFER TO PRODUCT SPECIFICATION PS-79107.
- 6 - TUBE PACKAGING PER PK-70873-0217 OR TAPE PACKAGING PER PK-70873-0259.
- 7 - SEE PSX-79107 FOR SUGGESTED BOTTOM ENTRY PIN LENGTHS.
- 8 - .035 DIA. FOR PRESS FIT ONLY. USE .039±.002 FOR ALIGNMENT PURPOSES ON PICK AND PLACE.
- 9 - MEASUREMENT IS TAKEN BETWEEN THE TANGENT OF THE TOE TO TIP OF THE TERMINAL.



## RECOMMENDED PCB LAYOUT

[illegible]

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1

## PEG OPTION

| CKT.<br>SIZE | DIM. "A" |         | DIM. "B" |         | DIM. "C" |         | DIM. "D" |        | PLATING OPTION 5                         |                                         | PLATING OPTION 4                         |                                         | PLATING OPTION 6                         |                                         |
|--------------|----------|---------|----------|---------|----------|---------|----------|--------|------------------------------------------|-----------------------------------------|------------------------------------------|-----------------------------------------|------------------------------------------|-----------------------------------------|
|              | INCH     | MM      | INCH     | MM      | INCH     | MM      | INCH     | MM     | ITEM NO.<br>TUBE PACKED<br>(WITHOUT CAP) | ITEM NO.<br>TAPE PACKED<br>(WITH CAP A) | ITEM NO.<br>TUBE PACKED<br>(WITHOUT CAP) | ITEM NO.<br>TAPE PACKED<br>(WITH CAP A) | ITEM NO.<br>TUBE PACKED<br>(WITHOUT CAP) | ITEM NO.<br>TAPE PACKED<br>(WITH CAP A) |
| 04           | .079     | (2.00)  | .165     | (4.19)  | -        | -       | .183     | (4.65) | 79109-1201                               | 79109-8601                              | 79109-1251                               | 79109-8651                              | X 79109-1301                             | -                                       |
| 06           | .157     | (4.00)  | .244     | (6.19)  | .079     | (2.00)  | .183     | (4.65) | 79109-1202                               | 79109-8602                              | 79109-1252                               | 79109-8652                              | X 79109-1302                             | -                                       |
| 08           | .236     | (6.00)  | .322     | (8.19)  | .157     | (4.00)  | .183     | (4.65) | 79109-1203                               | 79109-8603                              | 79109-1253                               | 79109-8653                              | X 79109-1303                             | -                                       |
| 10           | .315     | (8.00)  | .401     | (10.19) | .236     | (6.00)  | .183     | (4.65) | 79109-1204                               | 79109-8604                              | 79109-1254                               | 79109-8654                              | X 79109-1304                             | -                                       |
| 12           | .394     | (10.00) | .480     | (12.19) | .315     | (8.00)  | .183     | (4.65) | 79109-1205                               | 79109-8605                              | 79109-1255                               | 79109-8655                              | X 79109-1305                             | -                                       |
| 14           | .472     | (12.00) | .559     | (14.19) | .394     | (10.00) | .183     | (4.65) | 79109-1206                               | 79109-8606                              | 79109-1256                               | 79109-8656                              | X 79109-1306                             | -                                       |
| 16           | .551     | (14.00) | .637     | (16.19) | .472     | (12.00) | .183     | (4.65) | 79109-1207                               | 79109-8607                              | 79109-1257                               | 79109-8657                              | X 79109-1307                             | -                                       |
| 18           | .630     | (16.00) | .716     | (18.19) | .551     | (14.00) | .183     | (4.65) | 79109-1208                               | 79109-8608                              | 79109-1258                               | 79109-8658                              | X 79109-1308                             | -                                       |
| 20           | .709     | (18.00) | .795     | (20.19) | .630     | (16.00) | .183     | (4.65) | 79109-1209                               | 79109-8609                              | 79109-1259                               | 79109-8659                              | X 79109-1309                             | -                                       |
| 22           | .787     | (20.00) | .874     | (22.19) | .709     | (18.00) | .183     | (4.65) | 79109-1210                               | 79109-8610                              | 79109-1260                               | 79109-8660                              | X 79109-1310                             | -                                       |
| 24           | .866     | (22.00) | .952     | (24.19) | .787     | (20.00) | .183     | (4.65) | 79109-1211                               | 79109-8611                              | 79109-1261                               | 79109-8661                              | X 79109-1311                             | -                                       |
| 26           | .945     | (24.00) | 1.031    | (26.19) | .866     | (22.00) | .183     | (4.65) | 79109-1212                               | 79109-8612                              | 79109-1262                               | 79109-8662                              | X 79109-1312                             | -                                       |
| 28           | 1.024    | (26.00) | 1.110    | (28.19) | .945     | (24.00) | .183     | (4.65) | 79109-1213                               | 79109-8613                              | 79109-1263                               | 79109-8663                              | X 79109-1313                             | -                                       |
| 30           | 1.102    | (28.00) | 1.188    | (30.19) | 1.024    | (26.00) | .183     | (4.65) | 79109-1214                               | 79109-8614                              | 79109-1264                               | 79109-8664                              | X 79109-1314                             | -                                       |
| 32           | 1.181    | (30.00) | 1.267    | (32.19) | 1.102    | (28.00) | .183     | (4.65) | 79109-1215                               | 79109-8615                              | 79109-1265                               | 79109-8665                              | X 79109-1315                             | -                                       |
| 34           | 1.260    | (32.00) | 1.346    | (34.19) | 1.181    | (30.00) | .183     | (4.65) | 79109-1216                               | 79109-8616                              | 79109-1266                               | 79109-8666                              | X 79109-1316                             | -                                       |
| 36           | 1.338    | (34.00) | 1.425    | (36.19) | 1.260    | (32.00) | .183     | (4.65) | 79109-1217                               | 79109-8617                              | 79109-1267                               | 79109-8667                              | X 79109-1317                             | -                                       |
| 38           | 1.417    | (36.00) | 1.504    | (38.19) | 1.338    | (34.00) | .183     | (4.65) | 79109-1218                               | 79109-8618                              | 79109-1268                               | 79109-8668                              | X 79109-1318                             | -                                       |
| 40           | 1.496    | (38.00) | 1.582    | (40.19) | 1.417    | (36.00) | .183     | (4.65) | 79109-1219                               | 79109-8619                              | 79109-1269                               | 79109-8669                              | X 79109-1319                             | -                                       |
| 42           | 1.575    | (40.00) | 1.661    | (42.19) | 1.496    | (38.00) | .183     | (4.65) | 79109-1220                               | 79109-8620                              | 79109-1270                               | 79109-8670                              | X 79109-1320                             | -                                       |
| 44           | 1.654    | (42.00) | 1.740    | (44.19) | 1.575    | (40.00) | .183     | (4.65) | 79109-1221                               | 79109-8621                              | 79109-1271                               | 79109-8671                              | X 79109-1321                             | -                                       |
| 46           | 1.732    | (44.00) | 1.818    | (46.19) | 1.654    | (42.00) | .183     | (4.65) | 79109-1222                               | 79109-8622                              | 79109-1272                               | 79109-8672                              | X 79109-1322                             | -                                       |
| 48           | 1.811    | (46.00) | 1.897    | (48.19) | 1.732    | (44.00) | .183     | (4.65) | 79109-1223                               | 79109-8623                              | 79109-1273                               | 79109-8673                              | X 79109-1323                             | -                                       |
| 50           | 1.890    | (48.00) | 1.976    | (50.19) | 1.811    | (46.00) | .183     | (4.65) | 79109-1224                               | 79109-8624                              | 79109-1274                               | 79109-8674                              | X 79109-1324                             | -                                       |

\*X\* INDICATES TOOLING NOT AVAILABLE

|                                                                                                                  |                                                                                                                                                                    |                                                            |                                          |        |                                                                                                                                  |                                            |                    |                                                   |                                |  |                          |                      |  |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------|---------------------------------------------------|--------------------------------|--|--------------------------|----------------------|--|
| REVISED<br>EC NO: S2010-0566<br>2010/01/05<br>DRWN:SKANG<br>CHKD:ATSEE<br>2010/02/03<br>APPR:MLONG<br>2010/02/19 | QUALITY<br>SYMBOLS<br><div><div><div></div></div><div>=0</div></div> <div><div><div></div></div><div>=0</div></div> <div><div><div></div></div><div>=0</div></div> | DESCRIPTION                                                | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |        | DIMENSION STYLE<br>IN/MM                                                                                                         |                                            | SCALE<br>NTS       | DESIGN UNITS<br>INCH                              | THIRD ANGLE<br>PROJECTION      |  |                          |                      |  |
|                                                                                                                  |                                                                                                                                                                    |                                                            |                                          | mm     | INCH                                                                                                                             | DRAWN BY<br>AAB                            | DATE<br>1989/05/15 | TITLE<br>2MM DUAL ROW<br>VERTICAL RECEPTACLE, SMT |                                |  |                          |                      |  |
|                                                                                                                  |                                                                                                                                                                    |                                                            | 4 PLACES                                 | ± ---  | ± ---                                                                                                                            | CHECKED BY<br>MJM                          | DATE<br>1989/05/15 |                                                   |                                |  |                          |                      |  |
|                                                                                                                  |                                                                                                                                                                    |                                                            | 3 PLACES                                 | ± ---  | ± .010                                                                                                                           | APPROVED BY<br>DATE<br>MLONG<br>2010/02/18 |                    |                                                   |                                |  | molex MOLEX INCORPORATED |                      |  |
|                                                                                                                  |                                                                                                                                                                    |                                                            | 2 PLACES                                 | ± 0.25 | ± .015                                                                                                                           |                                            |                    |                                                   |                                |  |                          |                      |  |
|                                                                                                                  |                                                                                                                                                                    |                                                            | 1 PLACE                                  | ± 0.38 | ± ---                                                                                                                            | MATERIAL NO.<br>SEE TABLE                  |                    |                                                   | DOCUMENT NO.<br>SDA-79109-**** |  |                          | SHEET NO.<br>5 OF 10 |  |
| ANGULAR ± 3 °                                                                                                    |                                                                                                                                                                    | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                          |        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                            |                    |                                                   |                                |  |                          |                      |  |
| M6                                                                                                               | REV                                                                                                                                                                |                                                            |                                          |        |                                                                                                                                  |                                            |                    |                                                   |                                |  |                          |                      |  |

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PEG OPTION

SPECIAL PACKAGING (TAPE PACKED WITHOUT CAP)

| CKT.<br>SIZE | DIM. "A" |         | DIM. "B" |         | DIM. "C" |         | DIM. "D" |        | ITEM NO.   | PLATING<br>OPTION<br>SEE SHEET 1 |
|--------------|----------|---------|----------|---------|----------|---------|----------|--------|------------|----------------------------------|
|              | INCH     | MM      | INCH     | MM      | INCH     | MM      | INCH     | MM     |            |                                  |
| 50           | 1.890    | (48.00) | 1.976    | (50.19) | 1.811    | (46.00) | .183     | (4.65) | 79109-9103 | 5                                |



ASSEMBLIES WITH PEGS  
VOIDED CIRCUIT OPTION

| CKT.<br>SIZE | ASSEMBLY<br>(WITHOUT CAP IN TUBE) | VOID LOCATION(S)<br>SEE SHEET 1 FOR CONVENTION |             | PLATING OPTION | DIM. "A" |         | DIM. "B" |         | DIM. "C" |         | DIM. "D" |         |
|--------------|-----------------------------------|------------------------------------------------|-------------|----------------|----------|---------|----------|---------|----------|---------|----------|---------|
|              | ITEM NO.                          | ROW                                            | CKT. NO.(s) |                | INCH     | MM      | INCH     | MM      | INCH     | MM      | INCH     | MM      |
| 48           | 79109-6011                        | ROW A                                          | 1, 24       | 5              | 1.811    | (46.00) | 1.897    | (48.19) | 1.732    | (44.00) | .183     | ( 4.65) |
| 44           | 79109-6012                        | ROW B                                          | 10          | 5              | 1.654    | (42.00) | 1.740    | (44.19) | 1.575    | (42.00) | .183     | ( 4.65) |

NOTES:  
1. TERMINALS WILL BE PRESENT IN VOIDED LOCATIONS. HOWEVER, PIN WINDOWS WILL BE CLOSED.  
2. VOIDS CAN ONLY BE PRESENT IN ONE ROW OF A CONNECTOR.

SPECIAL - CUSTOM TERMINAL FEET

PEG OPTION

|           |       | DIM. "A" |       | DIM. "B" |       | DIM. "C" |      | DIM. "D" |    | PLATING OPTION 5                   |                                   |                                   |
|-----------|-------|----------|-------|----------|-------|----------|------|----------|----|------------------------------------|-----------------------------------|-----------------------------------|
| CKT. SIZE |       | INCH     | MM    | INCH     | MM    | INCH     | MM   | INCH     | MM | ITEM NO. TUBE PACKED (WITHOUT CAP) | ITEM NO. TAPE PACKED (WITH CAP A) | ITEM NO. TUBE PACKED (WITH CAP A) |
| 04        | .079  | (2.00)   | .165  | (4.19)   | -     | -        | .185 | (4.70)   |    | X -                                | X 79109-8751                      | X -                               |
| 06        | .157  | (4.00)   | .244  | (6.19)   | .079  | (2.00)   | .185 | (4.70)   |    | X -                                | X 79109-8752                      | X -                               |
| 08        | .236  | (6.00)   | .322  | (8.19)   | .157  | (4.00)   | .185 | (4.70)   |    | X -                                | X 79109-8753                      | X -                               |
| 10        | .315  | (8.00)   | .401  | (10.19)  | .236  | (6.00)   | .185 | (4.70)   |    | X -                                | X 79109-8754                      | X -                               |
| 12        | .394  | (10.00)  | .480  | (12.19)  | .315  | (8.00)   | .185 | (4.70)   |    | X -                                | X 79109-8755                      | X -                               |
| 14        | .472  | (12.00)  | .559  | (14.19)  | .394  | (10.00)  | .185 | (4.70)   |    | X -                                | X 79109-8756                      | X -                               |
| 16        | .551  | (14.00)  | .637  | (16.19)  | .472  | (12.00)  | .185 | (4.70)   |    | X -                                | X 79109-8757                      | X -                               |
| 18        | .630  | (16.00)  | .716  | (18.19)  | .551  | (14.00)  | .185 | (4.70)   |    | X -                                | X 79109-8758                      | X -                               |
| 20        | .709  | (18.00)  | .795  | (20.19)  | .630  | (16.00)  | .185 | (4.70)   |    | X -                                | X 79109-8759                      | X -                               |
| 22        | .787  | (20.00)  | .874  | (22.19)  | .709  | (18.00)  | .185 | (4.70)   |    | X -                                | X 79109-8760                      | X -                               |
| 24        | .866  | (22.00)  | .952  | (24.19)  | .787  | (20.00)  | .185 | (4.70)   |    | X -                                | X 79109-8761                      | X -                               |
| 26        | .945  | (24.00)  | 1.031 | (26.19)  | .866  | (22.00)  | .185 | (4.70)   |    | X -                                | X 79109-8762                      | X -                               |
| 28        | 1.024 | (26.00)  | 1.110 | (28.19)  | .945  | (24.00)  | .185 | (4.70)   |    | X -                                | X 79109-8763                      | X -                               |
| 30        | 1.102 | (28.00)  | 1.188 | (30.19)  | 1.024 | (26.00)  | .185 | (4.70)   |    | 79109-7010                         | 79109-8764                        | X 79109-7065                      |
| 32        | 1.181 | (30.00)  | 1.267 | (32.19)  | 1.102 | (28.00)  | .185 | (4.70)   |    | X -                                | X 79109-8765                      | X -                               |
| 34        | 1.260 | (32.00)  | 1.346 | (34.19)  | 1.181 | (30.00)  | .185 | (4.70)   |    | X -                                | X 79109-8766                      | X -                               |
| 36        | 1.338 | (34.00)  | 1.425 | (36.19)  | 1.260 | (32.00)  | .185 | (4.70)   |    | X -                                | X 79109-8767                      | X -                               |
| 38        | 1.417 | (36.00)  | 1.504 | (38.19)  | 1.338 | (34.00)  | .185 | (4.70)   |    | X -                                | X 79109-8768                      | X -                               |
| 40        | 1.496 | (38.00)  | 1.582 | (40.19)  | 1.417 | (36.00)  | .185 | (4.70)   |    | X -                                | X 79109-8769                      | X -                               |
| 42        | 1.575 | (40.00)  | 1.661 | (42.19)  | 1.496 | (38.00)  | .185 | (4.70)   |    | X -                                | X N.A.                            | X -                               |
| 44        | 1.654 | (42.00)  | 1.740 | (44.19)  | 1.575 | (40.00)  | .185 | (4.70)   |    | 79109-7016                         | X N.A.                            | X -                               |
| 46        | 1.732 | (44.00)  | 1.818 | (46.19)  | 1.654 | (42.00)  | .185 | (4.70)   |    | X -                                | X N.A.                            | X -                               |
| 48        | 1.811 | (46.00)  | 1.897 | (48.19)  | 1.732 | (44.00)  | .185 | (4.70)   |    | X -                                | X N.A.                            | X -                               |
| 50        | 1.890 | (48.00)  | 1.976 | (50.19)  | 1.811 | (46.00)  | .185 | (4.70)   |    | 79109-7015                         | X N.A.                            | X -                               |

"X" INDICATES TOOLING NOT AVAILABLE

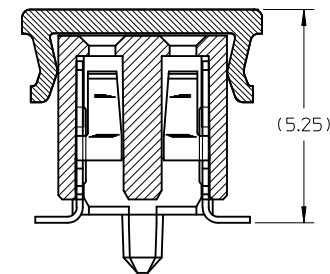
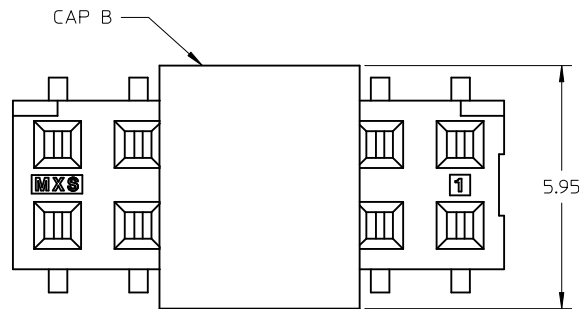
|                                                                               |                                                       |                                                      |                                       |                      |                                                                                                                                  |                 |                    |                                                   |                        |  |  |
|-------------------------------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|---------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------|---------------------------------------------------|------------------------|--|--|
| REVISED<br>EC NO: S2010-0566<br>DRWN:SKANG<br>CHKD:ATSEE<br>APPR:MLONG<br>REV | DESCRIPTION<br>2010/01/05<br>2010/02/03<br>2010/02/19 | QUALITY SYMBOLS<br><br>$F_A=0$<br>$F_G=0$<br>$F_P=0$ | GENERAL TOLERANCES (UNLESS SPECIFIED) |                      | DIMENSION STYLE<br>IN/MM                                                                                                         |                 | SCALE<br>NTS       | DESIGN UNITS<br>INCH                              | THIRD ANGLE PROJECTION |  |  |
|                                                                               |                                                       |                                                      |                                       | mm                   | INCH                                                                                                                             | DRAWN BY<br>AAB | DATE<br>1989/05/15 | TITLE<br>2MM DUAL ROW<br>VERTICAL RECEPTACLE, SMT |                        |  |  |
|                                                                               |                                                       |                                                      | 4 PLACES                              | ± ---                | ± ---                                                                                                                            | CHECKED BY      | DATE               |                                                   |                        |  |  |
|                                                                               |                                                       |                                                      | 3 PLACES                              | ± ---                | ± .010                                                                                                                           | MJM             | 1989/05/15         | MOLEX INCORPORATED                                |                        |  |  |
|                                                                               |                                                       |                                                      | 2 PLACES                              | ± 0.25               | ± .015                                                                                                                           | APPROVED BY     | DATE               |                                                   |                        |  |  |
|                                                                               |                                                       |                                                      | 1 PLACE                               | ± 0.38               | ± ---                                                                                                                            | MLONG           | 2010/02/18         | DOCUMENT NO.<br>SDA-79109-****                    |                        |  |  |
| ANGULAR ± 3 °                                                                 |                                                       | MATERIAL NO.                                         |                                       | SHEET NO.<br>8 OF 10 |                                                                                                                                  |                 |                    |                                                   |                        |  |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                    |                                                       |                                                      | SEE TABLE                             |                      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                 |                    |                                                   |                        |  |  |



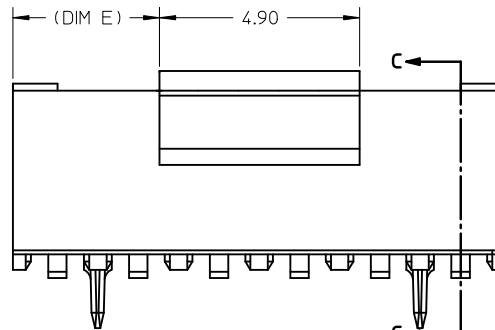
# SPECIAL - ASSEMBLIES WITH CAP B (TAPE PACKED WITH CAP)

## PEG OPTION

| CKT.<br>SIZE | DIM. "A" |         | DIM. "B" |         | DIM. "C" |         | DIM. "D" |        | DIM. "E" |        | ITEM NO.   | PLATING<br>OPTION<br>SEE SHEET 1 |
|--------------|----------|---------|----------|---------|----------|---------|----------|--------|----------|--------|------------|----------------------------------|
|              | INCH     | MM      | INCH     | MM      | INCH     | MM      | INCH     | MM     | INCH     | MM     |            |                                  |
| 8            | .236     | (6.00)  | .322     | (8.19)  | .157     | (4.00)  | .183     | (4.65) | .065     | (1.65) | 79109-9108 | 4                                |
| 18           | .630     | (16.00) | .716     | (18.19) | .551     | (14.00) | .183     | (4.65) | .262     | (6.65) | 79109-9118 | 4                                |



SECTION C-C



|                                                                              |                    |                                                                                                                 |                                                            |        |                          |                                                                                                                                  |                    |                                                   |                                                                                                                 |                                                                                                          |  |
|------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--|
| REVISED<br>EC NO: S2010-0566<br>DRWN:SKANG<br>CHKD:ATSEE<br>APPR:MLONG<br>M6 | DESCRIPTION<br>REV | QUALITY<br>SYMBOLS<br><div><div>F<sub>A</sub>=0</div><div>F<sub>G</sub>=0</div><div>F<sub>P</sub>=0</div></div> | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        | DIMENSION STYLE<br>IN/MM |                                                                                                                                  | SCALE<br>NTS       | DESIGN UNITS<br>INCH                              |  THIRD ANGLE<br>PROJECTION |                                                                                                          |  |
|                                                                              |                    |                                                                                                                 |                                                            | mm     | INCH                     | DRAWN BY<br>AAB                                                                                                                  | DATE<br>1989/05/15 | TITLE<br>2MM DUAL ROW<br>VERTICAL RECEPTACLE, SMT |                                                                                                                 |                                                                                                          |  |
|                                                                              |                    |                                                                                                                 | 4 PLACES                                                   | ± ---  | ± ---                    | CHECKED BY<br>MJM                                                                                                                | DATE<br>1989/05/15 |                                                   |                                                                                                                 |                                                                                                          |  |
|                                                                              |                    |                                                                                                                 | 3 PLACES                                                   | ± ---  | ± .010                   | APPROVED BY<br>MLONG                                                                                                             |                    | DATE<br>2010/02/18                                |                                                                                                                 |  MOLEX INCORPORATED |  |
|                                                                              |                    |                                                                                                                 | 2 PLACES                                                   | ± 0.25 | ± .015                   |                                                                                                                                  |                    |                                                   |                                                                                                                 |                                                                                                          |  |
|                                                                              |                    |                                                                                                                 | 1 PLACE                                                    | ± 0.38 | ± ---                    | MATERIAL NO.                                                                                                                     |                    | DOCUMENT NO.                                      |                                                                                                                 | SHEET NO.                                                                                                |  |
|                                                                              |                    |                                                                                                                 | ANGULAR ± 3 °                                              |        |                          | SEE TABLE                                                                                                                        |                    | SDA-79109-****                                    |                                                                                                                 | 10 OF 10                                                                                                 |  |
|                                                                              |                    |                                                                                                                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |                          | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                   |                                                                                                                 |                                                                                                          |  |