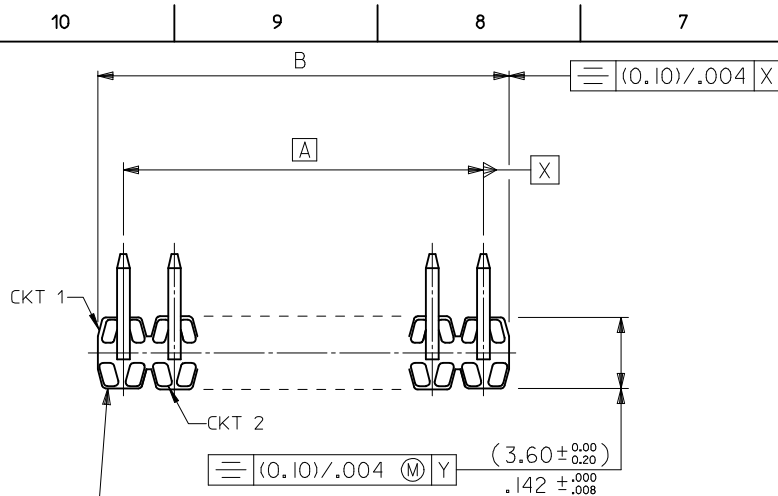
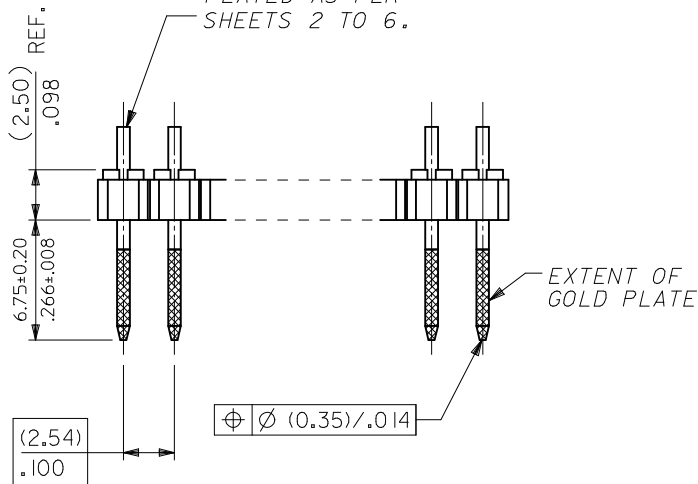




WAFER: 15% GLASS FILLED POLYESTER  
TO UL 94V-0.  
COLOUR: BLACK.

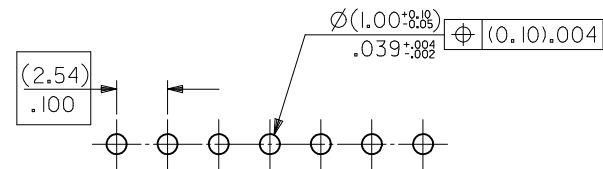
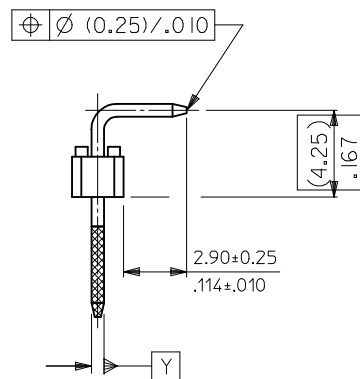
PINS: (0.635)/.025 SQ.  
BRASS WIRE.  
PLATED AS PER  
SHEETS 2 TO 6.



#### NOTES

- PLEASE REFER TO SHT 2 FOR PLATING DETAILS.
- PLEASE REFER TO SHT 3-7 FOR DIMENSIONS C & D.
- RECOMMENDED PCB THICKNESS 1.60MM
- PRODUCT SPECIFICATION: PS-99020-0001.
- PACKAGING REFER TO PK-90120-100

| CKT SIZE | DIM. "A" |       | DIM. "B" ( $\pm 0.20$ )<br>$\pm .008$ |       | CKT SIZE | DIM. "A" |       | DIM. "B" ( $\pm 0.20$ )<br>$\pm .008$ |       |
|----------|----------|-------|---------------------------------------|-------|----------|----------|-------|---------------------------------------|-------|
| 1X 1     |          |       | (2.54)                                | .100  | 1X21     | (50.80)  | 2.000 | (53.34)                               | 2.100 |
| 1X 2     | (2.54)   | .100  | (5.08)                                | .200  | 1X22     | (53.34)  | 2.100 | (55.88)                               | 2.200 |
| 1X 3     | (5.08)   | .200  | (7.62)                                | .300  | 1X23     | (55.88)  | 2.200 | (58.42)                               | 2.300 |
| 1X 4     | (7.62)   | .300  | (10.16)                               | .400  | 1X24     | (58.42)  | 2.300 | (60.96)                               | 2.400 |
| 1X 5     | (10.16)  | .400  | (12.70)                               | .500  | 1X25     | (60.96)  | 2.400 | (63.50)                               | 2.500 |
| 1X 6     | (12.70)  | .500  | (15.24)                               | .600  | 1X26     | (63.50)  | 2.500 | (66.04)                               | 2.600 |
| 1X 7     | (15.24)  | .600  | (17.78)                               | .700  | 1X27     | (66.04)  | 2.600 | (68.58)                               | 2.700 |
| 1X 8     | (17.78)  | .700  | (20.32)                               | .800  | 1X28     | (68.58)  | 2.700 | (71.12)                               | 2.800 |
| 1X 9     | (20.32)  | .800  | (22.86)                               | .900  | 1X29     | (71.12)  | 2.800 | (73.66)                               | 2.900 |
| 1X10     | (22.86)  | .900  | (25.40)                               | 1.000 | 1X30     | (73.66)  | 2.900 | (76.20)                               | 3.000 |
| 1X11     | (25.40)  | 1.000 | (27.94)                               | 1.100 | 1X31     | (76.20)  | 3.000 | (78.74)                               | 3.100 |
| 1X12     | (27.94)  | 1.100 | (30.48)                               | 1.200 | 1X32     | (78.74)  | 3.100 | (81.28)                               | 3.200 |
| 1X13     | (30.48)  | 1.200 | (33.02)                               | 1.300 | 1X33     | (81.28)  | 3.200 | (83.82)                               | 3.300 |
| 1X14     | (33.02)  | 1.300 | (35.56)                               | 1.400 | 1X34     | (83.82)  | 3.300 | (86.36)                               | 3.400 |
| 1X15     | (35.56)  | 1.400 | (38.10)                               | 1.500 | 1X35     | (86.36)  | 3.400 | (88.90)                               | 3.500 |
| 1X16     | (38.10)  | 1.500 | (40.64)                               | 1.600 | 1X36     | (88.90)  | 3.500 | (91.44)                               | 3.600 |
| 1X17     | (40.64)  | 1.600 | (43.18)                               | 1.700 | 1X37     | (91.44)  | 3.600 | (93.98)                               | 3.700 |
| 1X18     | (43.18)  | 1.700 | (45.72)                               | 1.800 | 1X38     | (93.98)  | 3.700 | (96.52)                               | 3.800 |
| 1X19     | (45.72)  | 1.800 | (48.26)                               | 1.900 | 1X39     | (96.52)  | 3.800 | (99.06)                               | 3.900 |
| 1X20     | (48.26)  | 1.900 | (50.80)                               | 2.000 | 1X40     | (99.06)  | 3.900 | (101.60)                              | 4.000 |



RECOMMENDED PCB HOLE PATTERN

|                                                                          |    |                                        |             |                   |                                                            |          |                            |              |                                                                                                                                  |                                                             |                                                                                                              |            |  |
|--------------------------------------------------------------------------|----|----------------------------------------|-------------|-------------------|------------------------------------------------------------|----------|----------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------|--|
| ADD SHT 3<br>EC NO: S2013-0915<br>DRAWN:ATSEE<br>CHK'D:GOH<br>APPR:KHLIM |    | 2013/06/28<br>2014/11/26<br>2014/11/28 | DESCRIPTION | QUALITY SYMBOLS   | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |          | DIMENSION STYLE<br>MM ONLY |              | SCALE<br>NTS                                                                                                                     | DESIGN UNITS<br>METRIC                                      |  THIRD ANGLE PROJECTION |            |  |
|                                                                          |    |                                        |             |                   | F <sub>A</sub> =0                                          | mm       | INCH                       | DRAWN BY     | DATE                                                                                                                             | TITLE<br><br>C-GRID III<br>SINGLE ROW RIGHT<br>ANGLE HEADER |                                                                                                              |            |  |
|                                                                          |    |                                        |             |                   |                                                            | 4 PLACES | ± ---                      | ± ---        | DB                                                                                                                               |                                                             |                                                                                                              | 1987/07/16 |  |
|                                                                          |    |                                        |             |                   |                                                            | 3 PLACES | ± ---                      | ± ---        | CHECKED BY                                                                                                                       |                                                             |                                                                                                              | DATE       |  |
| REV                                                                      | M1 |                                        |             | F <sub>E</sub> =0 | 2 PLACES                                                   | ± 0.20   | ± ---                      | DB           | 1987/07/16                                                                                                                       | <b>molex</b>                                                |                                                                                                              |            |  |
|                                                                          |    |                                        |             |                   | 1 PLACE                                                    | ± ---    | ± ---                      | APPROVED BY  | DATE                                                                                                                             |                                                             |                                                                                                              |            |  |
|                                                                          |    |                                        |             |                   | 0 PLACE                                                    | ±        | ±                          | MLONG        | 2012/02/24                                                                                                                       |                                                             |                                                                                                              |            |  |
|                                                                          |    |                                        |             |                   | ANGULAR ± 3 °                                              |          | MATERIAL NO.               | DOCUMENT NO. | SHEET NO.                                                                                                                        |                                                             |                                                                                                              |            |  |
|                                                                          |    |                                        |             |                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |          | SEE TABLE                  |              | SD-90121-001                                                                                                                     |                                                             | 1 OF 3                                                                                                       |            |  |
|                                                                          |    |                                        |             |                   |                                                            |          | SIZE<br>A3                 |              | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                             |                                                                                                              |            |  |

# PLATING OPTIONS

| PLATING | PLATING DESCRIPTION                                                                                                       |
|---------|---------------------------------------------------------------------------------------------------------------------------|
| A       | 3.00μm MIN TIN OVER 1.27MIN NICKEL OVERALL                                                                                |
| E       | 0.38μm MIN GOLD IN SELECTED AREA (2 SIDES) AND<br>3.00μm MIN TIN IN SELECTED AREA AND<br>1.30μm MIN NICKEL OVERALL        |
| F       | 0.76μm MIN GOLD IN SELECTED AREA (2 SIDES) AND<br>3.00μm MIN TIN IN SELECTED AREA AND<br>1.30μm MIN NICKEL OVERALL        |
| G       | 0.05-0.10μm GOLD FLASH IN SELECTED AREA (2 SIDES)<br>AND 3.00μm MIN TIN IN SELECTED AREA AND<br>1.30μm MIN NICKEL OVERALL |

| CIRCUIT<br>SIZE | PLATING<br>TYPE A<br>PART NO. | PLATING<br>TYPE E<br>PART NO. | PLATING<br>TYPE F<br>PART NO. | PLATING<br>TYPE G<br>PART NO. |
|-----------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 1 X 1           | 90121-0121                    | 90121-0761                    | 90121-0921                    | 90121-1081                    |
| 1 X 2           | ↑ -0122                       | ↑ -0762                       | ↑ -0922                       | ↑ -1082                       |
| 1 X 3           | -0123                         | -0763                         | -0923                         | -1083                         |
| 1 X 4           | -0124                         | -0764                         | -0924                         | -1084                         |
| 1 X 5           | -0125                         | -0765                         | -0925                         | -1085                         |
| 1 X 6           | -0126                         | -0766                         | -0926                         | -1086                         |
| 1 X 7           | -0127                         | -0767                         | -0927                         | -1087                         |
| 1 X 8           | -0128                         | -0768                         | -0928                         | -1088                         |
| 1 X 9           | -0129                         | -0769                         | -0929                         | -1089                         |
| 1 X 10          | -0130                         | -0770                         | -0930                         | -1090                         |
| 1 X 11          | -0131                         | -0771                         | -0931                         | -1091                         |
| 1 X 12          | -0132                         | -0772                         | -0932                         | -1092                         |
| 1 X 13          | -0133                         | -0773                         | -0933                         | -1093                         |
| 1 X 14          | -0134                         | -0774                         | -0934                         | -1094                         |
| 1 X 15          | -0135                         | -0775                         | -0935                         | -1095                         |
| 1 X 16          | -0136                         | -0776                         | -0936                         | -1096                         |
| 1 X 17          | -0137                         | -0777                         | -0937                         | -1097                         |
| 1 X 18          | -0138                         | -0778                         | -0938                         | -1098                         |
| 1 X 19          | -0139                         | -0779                         | -0939                         | -1099                         |
| 1 X 20          | -0140                         | -0780                         | -0940                         | -1100                         |
| 1 X 21          | -0141                         | -0781                         | -0941                         | -1101                         |
| 1 X 22          | -0142                         | -0782                         | -0942                         | -1102                         |
| 1 X 23          | -0143                         | -0783                         | -0943                         | -1103                         |
| 1 X 24          | -0144                         | -0784                         | -0944                         | -1104                         |
| 1 X 25          | -0145                         | -0785                         | -0945                         | -1105                         |
| 1 X 26          | -0146                         | -0786                         | -0946                         | -1106                         |
| 1 X 27          | -0147                         | -0787                         | -0947                         | -1107                         |
| 1 X 28          | -0148                         | -0788                         | -0948                         | -1108                         |
| 1 X 29          | -0149                         | -0789                         | -0949                         | -1109                         |
| 1 X 30          | -0150                         | -0790                         | -0950                         | -1110                         |
| 1 X 31          | -0151                         | -0791                         | -0951                         | -1111                         |
| 1 X 32          | -0152                         | -0792                         | -0952                         | -1112                         |
| 1 X 33          | -0153                         | -0793                         | -0953                         | -1113                         |
| 1 X 34          | -0154                         | -0794                         | -0954                         | -1114                         |
| 1 X 35          | -0155                         | -0795                         | -0955                         | -1115                         |
| 1 X 36          | -0156                         | -0796                         | -0956                         | -1116                         |
| 1 X 37          | -0157                         | -0797                         | -0957                         | -1117                         |
| 1 X 38          | -0158                         | -0798                         | -0958                         | -1118                         |
| 1 X 39          | ↓ -0159                       | ↓ -0799                       | ↓ -0959                       | ↓ -1119                       |
| 1 X 40          | 90121-0160                    | 90121-0800                    | 90121-0960                    | 90121-1120                    |

|                                                                                                           |             |                                                                 |                                                            |        |                            |                      |                                                                                                                                  |                                                                      |                                       |  |
|-----------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------|------------------------------------------------------------|--------|----------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------|--|
| ADD SHT 3<br>EC NO: S2013-0915<br>DRAWN:ATSEE 2013/06/28<br>CHK'D:G0H 2014/11/26<br>APPR:KHLIM 2014/11/28 | DESCRIPTION | QUALITY SYMBOLS<br><div>▽=0</div> <div>▽=0</div> <div>▽=0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |        | DIMENSION STYLE<br>MM ONLY |                      | SCALE<br>NTS                                                                                                                     | DESIGN UNITS<br>METRIC                                               | <div></div> THIRD ANGLE<br>PROJECTION |  |
|                                                                                                           |             |                                                                 |                                                            | mm     | INCH                       | DRAWN BY<br>DB       | DATE<br>1987/07/16                                                                                                               | TITLE<br><div>C-GRID III<br/>SINGLE ROW RIGHT<br/>ANGLE HEADER</div> |                                       |  |
|                                                                                                           |             |                                                                 | 4 PLACES                                                   | ± ---  | ± ---                      | CHECKED BY<br>DB     | DATE<br>1987/07/16                                                                                                               |                                                                      |                                       |  |
|                                                                                                           |             |                                                                 | 3 PLACES                                                   | ± ---  | ± ---                      | APPROVED BY<br>MLONG | DATE<br>2012/02/24                                                                                                               | <div>molex</div>                                                     |                                       |  |
|                                                                                                           |             |                                                                 | 2 PLACES                                                   | ± 0.20 | ± ---                      |                      |                                                                                                                                  |                                                                      |                                       |  |
|                                                                                                           |             |                                                                 | 1 PLACE                                                    | ± ---  | ± ---                      |                      |                                                                                                                                  |                                                                      |                                       |  |
| 0 PLACE                                                                                                   | ±           | ±                                                               | MATERIAL NO.                                               |        | DOCUMENT NO.               |                      | SHEET NO.<br>2 OF 3                                                                                                              |                                                                      |                                       |  |
| M1                                                                                                        | REV         |                                                                 | ANGULAR ± 3 °                                              |        | SEE TABLE                  |                      | SD-90121-001                                                                                                                     |                                                                      |                                       |  |
|                                                                                                           |             |                                                                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SIZE<br>A3                 |                      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                      |                                       |  |
|                                                                                                           |             |                                                                 |                                                            |        |                            |                      |                                                                                                                                  |                                                                      |                                       |  |

## E

D

C

**B**

**A**

1