

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0713086412](#)  
**Status:** **Active**  
**Description:** 2.54mm (.100") Pitch C-Grid® Header, Surface Mount, Dual Row, Vertical, 12 Circuits, 1.50µm (59µ") Minimum Bright Tin (Sn) Over Nickel (Ni) Plating, with 3.30mm (.130") PCB Locator Pegs

**Documents:**

[3D Model](#) [Product Specification PS-71308 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
 UL E29179

**General**

Product Family PCB Headers  
 Series [71308](#)  
 Application Board-to-Board, Wire-to-Board  
 Product Name C-Grid®

**Physical**

Breakaway Yes  
 Circuits (Loaded) 12  
 Circuits (maximum) 12  
 Color - Resin Black  
 Durability (mating cycles max) 50  
 Flammability 94V-0  
 Glow-Wire Compliant No  
 Lock to Mating Part None  
 Material - Metal Phosphor Bronze  
 Material - Plating Mating Tin  
 Material - Plating Termination Tin  
 Material - Resin High Temperature Thermoplastic  
 Number of Rows 2  
 Orientation Vertical  
 PCB Locator Yes  
 PCB Retention Yes  
 Packaging Type Tube  
 Pitch - Mating Interface (in) 0.100 In  
 Pitch - Mating Interface (mm) 2.54 mm  
 Polarized to PCB No  
 Shrouded No  
 Stackable Yes  
 Temperature Range - Operating -40°C to +105°C  
 Termination Interface: Style Surface Mount

**Electrical**

Current - Maximum per Contact 3A  
 Voltage - Maximum 250V

**Solder Process Data**

Duration at Max. Process Temperature (seconds) 40  
 Lead-free Process Capability Reflow Capable (SMT only)  
 Max. Cycles at Max. Process Temperature 3  
 Process Temperature max. C 260

**Material Info**



*Series  
image - Reference only*

**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**  
[71308Series](#)

**Reference - Drawing Numbers**

Product Specification  
Sales Drawing

PS-71308, RPS-71308-001  
SD-71308-001

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OPTIONAL  
PICK AND PLACE CAP  
SEE NOTES 4 & 9.

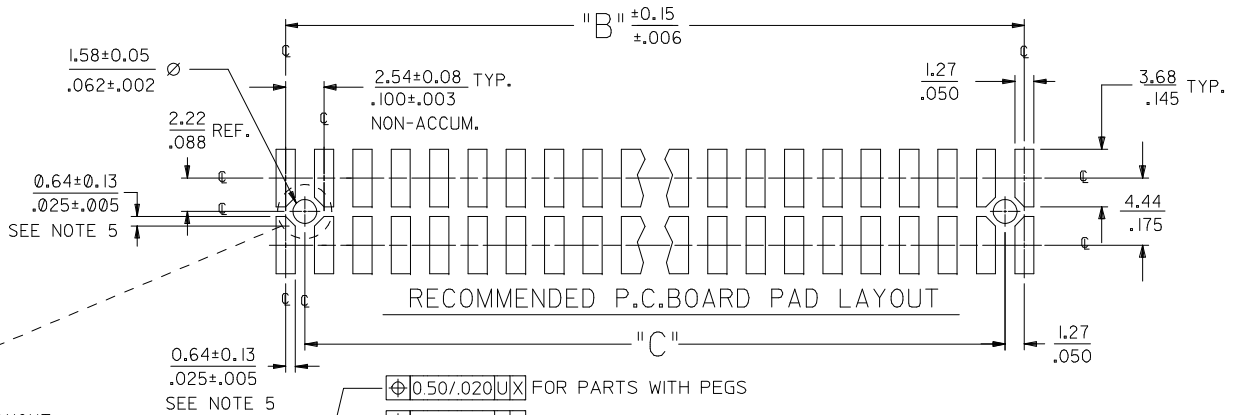


| DIM. "M"     | DIM. "G"      |
|--------------|---------------|
| 6.10<br>.240 | 10.67<br>.420 |
| 8.13<br>.320 | 12.70<br>.500 |

PEG OPTIONS



P.C. BOARD PAD LAYOUT  
AT ENDS FOR NO PEG VERSION.



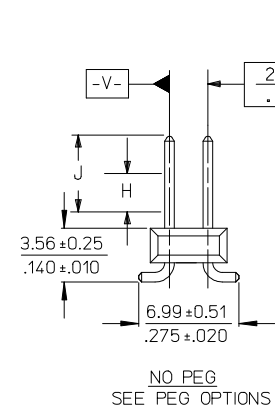
RECOMMENDED P.C. BOARD PAD LAYOUT

⊕ 0.50/.020|U|X FOR PARTS WITH PEGS  
⊕ 0.50/.020|U|Y FOR PARTS WITHOUT PEGS

ROW "A"  
ROW "B"



USED TO LOCATE VOIDED CIRCUITS



- NOTES:
- MATERIALS: INSULATOR: GLASS FILLED LIQUID CRYSTAL POLYMER (LCP), UL94 V-0, COLOR: BLACK  
TERMINAL: COPPER ALLOY
  - FINISH:  
59 TIN - 0.00150/.000059 MINIMUM BRIGHT TIN OVER NICKEL OVERALL.  
150 TIN - 0.00381/.000150 MINIMUM BRIGHT TIN OVER NICKEL OVERALL.  
15 GOLD - 0.00038/.000015 MINIMUM GOLD IN SELECT AREA OVER 0.00191/.000075 MINIMUM TIN IN SELECT AREA OVER NICKEL OVERALL.  
30 GOLD - 0.00076/.000030 MINIMUM GOLD IN SELECT AREA OVER 0.00191/.000075 MINIMUM TIN IN SELECT AREA OVER NICKEL OVERALL.  
50 GOLD - 0.00127/.000050 MINIMUM GOLD IN SELECT AREA OVER 0.00254/.000100 MINIMUM TIN IN SELECT AREA OVER NICKEL OVERALL.  
\* THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC". CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH LEAD.
  - PART TO CONFORM TO PS-71308.
  - PACKAGING (SEE CHARTS):  
BULK: PER PK-70873-0353  
TUBES: PER PK-70873-0041.  
71308-82\*\* IN TUBES: PER PK-70873-042.  
TUBES W/ VAC CAPS: PER PK-70873-0691  
TAPE AND REEL W/ VAC CAPS: PER PK-70873-0805.  
SEE SHEET 3 FOR TAPE & REEL PRODUCT WITH SHALLOW POCKET REQUIREMENTS.

- TYP. DIMENSIONS FOR LANDS SURROUNDING HOLES FOR RETENTION PEGS.
- PIN SOLERABILITY PER MOLEX SPEC. ES-152.
- SEE SHEETS 2-5 FOR CHARTED DIMS., PART/EDP NO'S, AND VOIDED CIRCUITS.
- PIN PUSHOUT FORCE: 3 LBS. MINIMUM.
- PICK-N-PLACE CAPS WILL BE PLACED SO THAT VACUUM PICK UP AREA WILL BE IN CENTER OF PART.
- COPLANARITY FOR CIRCUIT SIZES UP TO 40 IS 0.15 MM/.006 INCH. FOR CIRCUIT SIZES 42 AND LARGER, CONTACT MOLEX SALES DEPARTMENT.
- THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

| REV | DESCRIPTION   | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)   |                       | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION   |  |
|-----|---|-----------------|---|-----------------------|-----------------|-------|--------------|--|--|
|     |   |                 | mm  | INCH                  |                 |       |              |  |  |
| K3  | 12CKT TAPE & REEL<br>EC NO: UCP2009-2465<br>DRWN:KIPPER 2009/08/04<br>CHKD:SSOUSEK 2009/08/07<br>APPR:FSMITH 2009/08/10 | ▽=0<br>▽=0      | 4 PLACES ± --- ± ---  | 3 PLACES ± --- ± .005 | MM/IN           | KMS   | INCH         | SALES ASSY INSULATOR<br>DUAL ROW SMT W/BREAK-OFF<br>.025SQ PIN GULLWING .100 |  |
|     |   |                 | 2 PLACES ± 0.13 ± .010  | 1 PLACE ± 0.25 ± ---  |                 | KMS   |              | MOLEX INCORPORATED   |  |
|     |   |                 | ANGULAR ± 1/2°  |                       |                 |       |              | MOLEX INCORPORATED   |  |
|     |   |                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS  |                       | SEE TABLES      |       |              | SD-71308-001   |  |
|     |   |                 |   |                       |                 |       |              | SHEET NO.<br>1 OF 6  |  |
|     |   |                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                       |                 |       |              |  |  |



| IN TAPE AND REEL WITH SHALLOW POCKET TAPE |        |            |                            |                            |               |               |  |  |  | BULK / IN TUBES |               |      |
|---|--------|------------|----------------------------|----------------------------|---------------|---------------|--|--|--|-----------------|---------------|------|
| PACKAGING<br>SEE NOTE 4, SHT 1            |        | 4-8 CKT    | TAPE-N-REEL<br>W/ VAC CAPS | TAPE-N-REEL<br>W/ VAC CAPS |               |               |  |  |  | BULK            | BULK          |      |
|   |        | 10-100 CKT | TAPE-N-REEL<br>W/ VAC CAPS | TAPE-N-REEL<br>W/ VAC CAPS |               |               |  |  |  | TUBES           | TUBES         |      |
| DIM. M ±0.25 MM                           |        |            | 6.10 (.240)                | 6.10 (.240)                |               |               |  |  |  | 8.13 (.320)     | 13.59 (.535)  |      |
| PLATING                                   |        |            | 30 GOLD                    | 15 GOLD                    |               |               |  |  |  | 150 TIN         | 150 TIN       |      |
| DIM. H                                    |        |            | 2.54 (.100)                | 2.54 (.100)                |               |               |  |  |  | 4.57 (.180)     | 4.57 (.180)   |      |
| DIM. J                                    |        |            | 5.08 (.200)                | 5.08 (.200)                |               |               |  |  |  | 7.11 (.280)     | 7.11 (.280)   |      |
| CKTS                                      | DIM. A |            | DIM. B                     |                            | EDP<br>NUMBER | EDP<br>NUMBER |  |  |  | EDP<br>NUMBER   | EDP<br>NUMBER | CKTS |
|   | MM     | IN         | MM                         | IN                         |               |               |  |  |  |                 |               |      |
| 04  | 5.08   | .200       | 2.54                       | .100                       |               |               |  |  |  |                 |               | 04   |
| 06  | 7.62   | .300       | 5.08                       | .200                       |               | 015-91-6068   |  |  |  |                 |               | 06   |
| 08  | 10.16  | .400       | 7.62                       | .300                       |               | 015-91-6088   |  |  |  |                 |               | 08   |
| 10  | 12.70  | .500       | 10.16                      | .400                       |               | 015-91-6108   |  |  |  | 713088010       | 71308-8210    | 10   |
| 12  | 15.24  | .600       | 12.70                      | .500                       |               |               |  |  |  |                 |               | 12   |
| 14  | 17.78  | .700       | 15.24                      | .600                       | 015-91-6148   |               |  |  |  |                 |               | 14   |
| 16  | 20.32  | .800       | 17.78                      | .700                       |               |               |  |  |  | 713088016       |               | 16   |
| 18  | 22.86  | .900       | 20.32                      | .800                       |               |               |  |  |  |                 |               | 18   |
| 20  | 25.40  | 1.000      | 22.86                      | .900                       |               |               |  |  |  |                 |               | 20   |
| 22  | 27.94  | 1.100      | 25.40                      | 1.000                      |               |               |  |  |  |                 |               | 22   |
| 24  | 30.48  | 1.200      | 27.94                      | 1.100                      |               |               |  |  |  |                 |               | 24   |
| 26  | 33.02  | 1.300      | 30.48                      | 1.200                      |               |               |  |  |  |                 |               | 26   |
| 28  | 35.56  | 1.400      | 33.02                      | 1.300                      |               |               |  |  |  |                 |               | 28   |
| 30  | 38.10  | 1.500      | 35.56                      | 1.400                      |               |               |  |  |  |                 |               | 30   |
| 32  | 40.64  | 1.600      | 38.10                      | 1.500                      |               |               |  |  |  |                 |               | 32   |
| 34  | 43.18  | 1.700      | 40.64                      | 1.600                      |               |               |  |  |  |                 |               | 34   |
| 36  | 45.72  | 1.800      | 43.18                      | 1.700                      |               |               |  |  |  |                 |               | 36   |
| 38  | 48.26  | 1.900      | 45.72                      | 1.800                      |               |               |  |  |  |                 |               | 38   |
| 40  | 50.80  | 2.000      | 48.26                      | 1.900                      |               |               |  |  |  |                 |               | 40   |
| 42  | 53.34  | 2.100      | 50.80                      | 2.000                      |               |               |  |  |  |                 |               | 42   |
| 44  | 55.88  | 2.200      | 53.34                      | 2.100                      |               |               |  |  |  |                 |               | 44   |
| 46  | 58.42  | 2.300      | 55.88                      | 2.200                      |               |               |  |  |  |                 |               | 46   |
| 48  | 60.96  | 2.400      | 58.42                      | 2.300                      |               |               |  |  |  |                 |               | 48   |
| 50  | 63.50  | 2.500      | 60.96                      | 2.400                      |               |               |  |  |  |                 |               | 50   |
| 52  | 66.04  | 2.600      | 63.50                      | 2.500                      |               |               |  |  |  |                 |               | 52   |
| 54  | 68.58  | 2.700      | 66.04                      | 2.600                      |               |               |  |  |  |                 |               | 54   |
| 56  | 71.12  | 2.800      | 68.58                      | 2.700                      |               |               |  |  |  |                 |               | 56   |
| 58  | 73.66  | 2.900      | 71.12                      | 2.800                      |               |               |  |  |  |                 |               | 58   |
| 60  | 76.20  | 3.000      | 73.66                      | 2.900                      |               |               |  |  |  |                 |               | 60   |
| 62  | 78.74  | 3.100      | 76.20                      | 3.000                      |               |               |  |  |  |                 |               | 62   |
| 64  | 81.28  | 3.200      | 78.74                      | 3.100                      |               |               |  |  |  |                 |               | 64   |
| 66  | 83.82  | 3.300      | 81.28                      | 3.200                      |               |               |  |  |  |                 |               | 66   |
| 68  | 86.36  | 3.400      | 83.82                      | 3.300                      |               |               |  |  |  |                 |               | 68   |
| 70  | 88.90  | 3.500      | 86.36                      | 3.400                      |               |               |  |  |  |                 |               | 70   |
| 72  | 91.44  | 3.600      | 88.90                      | 3.500                      |               |               |  |  |  |                 |               | 72   |
| 74  | 93.98  | 3.700      | 91.44                      | 3.600                      |               |               |  |  |  |                 |               | 74   |
| 76  | 96.52  | 3.800      | 93.98                      | 3.700                      |               |               |  |  |  |                 |               | 76   |
| 78  | 99.06  | 3.900      | 96.52                      | 3.800                      |               |               |  |  |  |                 |               | 78   |
| 80  | 101.60 | 4.000      | 99.06                      | 3.900                      |               |               |  |  |  |                 |               | 80   |
| 82  | 104.14 | 4.100      | 101.60                     | 4.000                      |               |               |  |  |  |                 |               | 82   |
| 84  | 106.68 | 4.200      | 104.14                     | 4.100                      |               |               |  |  |  |                 |               | 84   |
| 86  | 109.22 | 4.300      | 106.68                     | 4.200                      |               |               |  |  |  |                 |               | 86   |
| 88  | 111.76 | 4.400      | 109.22                     | 4.300                      |               |               |  |  |  |                 |               | 88   |
| 90  | 114.30 | 4.500      | 111.76                     | 4.400                      |               |               |  |  |  |                 |               | 90   |
| 92  | 116.84 | 4.600      | 114.30                     | 4.500                      |               |               |  |  |  |                 |               | 92   |
| 94  | 119.38 | 4.700      | 116.84                     | 4.600                      |               |               |  |  |  |                 |               | 94   |
| 96  | 121.92 | 4.800      | 119.38                     | 4.700                      |               |               |  |  |  |                 |               | 96   |
| 98  | 124.46 | 4.900      | 121.92                     | 4.800                      |               |               |  |  |  |                 |               | 98   |
| 100                                       | 127.00 | 5.000      | 124.46                     | 4.900                      |               |               |  |  |  |                 |               | 100  |

**NO PEG VERSION**  
(ALSO SEE SHEET 2)

|   |                               |                                       |  |                          |                    |   |                              |                        |  |
|---|-------------------------------|---------------------------------------|--|--------------------------|--------------------|---|------------------------------|------------------------|--|
| SEE SHEET 1<br>EC NO: UCP2009-2465<br>DRWN:KIPPER 2009/08/04<br>CHKD:SSOUSEK 2009/08/07<br>APPR:FSMITH 2009/08/10 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |  | DIMENSION STYLE<br>MM/IN |                    | SCALE   | DESIGN UNITS<br>INCH         | THIRD ANGLE PROJECTION |  |
|   |                               | 4 PLACES ± --- ± ---                  | 3 PLACES ± --- ±.005   | DRAWN BY<br>KMS          | DATE<br>1999/10/15 | TITLE<br>SALES ASSY INSULATOR<br>DUAL ROW SMT W/BREAK-OFF<br>.025SQ PIN GULLWING .100 |                              |                        |  |
|   |                               | 2 PLACES ±0.13 ±.010                  | 1 PLACE ±0.25 ± ---  | CHECKED BY<br>KMS        | DATE<br>1999/10/15 | MOLEX INCORPORATED  |                              |                        |  |
|   |                               | ANGULAR ±1/2°                         |  | APPROVED BY<br>KMS       | DATE<br>1999/10/15 | MATERIAL NO.<br>SEE TABLE   | DOCUMENT NO.<br>SD-71308-001 |                        |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS  |                               | SIZE<br>C                             | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                          |                    |   |                              |                        |  |



|    |    |                               |            |             |                            |             |                            |   |   |   |   |
|----|----|-------------------------------|------------|-------------|----------------------------|-------------|----------------------------|---|---|---|---|
| 13 | 12 | 11                            | 10         | 9           | 8                          | 6           | 5                          | 4 | 3 | 2 | 1 |
|    |    | PACKAGING<br>SEE NOTE 4 SHT 1 | 4-8 CKT    | BULK        | TAPE-N-REEL<br>W/ VAC CAPS | BULK        | TAPE-N-REEL<br>W/ VAC CAPS |   |   |   |   |
|    |    |                               | 10-100 CKT | TUBES       | TAPE-N-REEL<br>W/ VAC CAPS | TUBES       | TAPE-N-REEL<br>W/ VAC CAPS |   |   |   |   |
|    |    | DIM. M±0.25 MM                |            | 6.10 (.240) |                            | 6.10 (.240) |                            |   |   |   |   |
|    |    | PLATING                       |            | 30 GOLD     |                            | 150 TIN     |                            |   |   |   |   |
|    |    | DIM. H                        |            | 2.54 (.100) |                            | 2.54 (.100) |                            |   |   |   |   |
|    |    | DIM. J                        |            | 5.08 (.200) |                            | 5.08 (.200) |                            |   |   |   |   |

| CKTS | DIM. A |       | DIM. B |       | DIM. C |       | EDP NUMBER  | EDP NUMBER  | EDP NUMBER | EDP NUMBER | EDP NUMBER | EDP NUMBER | EDP NUMBER | EDP NUMBER | EDP NUMBER | CKTS |
|------|--------|-------|--------|-------|--------|-------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------|
|      | MM     | IN    | MM     | IN    | MM     | IN    |             |             |            |            |            |            |            |            |            |      |
| 04   | 5.08   | .200  | 2.54   | .100  | ----   | ----  | 015-91-1048 | 015-91-6047 |            |            |            |            |            |            |            | 04   |
| 06   | 7.62   | .300  | 5.08   | .200  | 2.54   | .100  | 015-91-1068 | 015-91-6067 | 71308-6106 | 71308-6206 |            |            |            |            |            | 06   |
| 08   | 10.16  | .400  | 7.62   | .300  | 5.08   | .200  | 015-91-1088 | 015-91-6087 | 71308-6108 | 71308-6208 |            |            |            |            |            | 08   |
| 10   | 12.70  | .500  | 10.16  | .400  | 7.62   | .300  | 015-91-1108 | 015-91-6107 | 71308-6110 | 71308-6210 |            |            |            |            |            | 10   |
| 12   | 15.24  | .600  | 12.70  | .500  | 10.16  | .400  | 015-91-1128 |             |            |            |            |            |            |            |            | 12   |
| 14   | 17.78  | .700  | 15.24  | .600  | 12.70  | .500  | 015-91-1148 | 015-91-6147 |            |            |            |            |            |            |            | 14   |
| 16   | 20.32  | .800  | 17.78  | .700  | 15.24  | .600  | 015-91-1168 | 015-91-6167 |            |            |            |            |            |            |            | 16   |
| 18   | 22.86  | .900  | 20.32  | .800  | 17.78  | .700  | 015-91-1188 |             |            |            |            |            |            |            |            | 18   |
| 20   | 25.40  | 1.000 | 22.86  | .900  | 20.32  | .800  | 015-91-1208 | 015-91-6207 |            |            |            |            |            |            |            | 20   |
| 22   | 27.94  | 1.100 | 25.40  | 1.000 | 22.86  | .900  | 015-91-1228 |             |            |            |            |            |            |            |            | 22   |
| 24   | 30.48  | 1.200 | 27.94  | 1.100 | 25.40  | 1.000 | 015-91-1248 |             |            |            |            |            |            |            |            | 24   |
| 26   | 33.02  | 1.300 | 30.48  | 1.200 | 27.94  | 1.100 | 015-91-1268 |             | 71308-6126 |            |            |            |            |            |            | 26   |
| 28   | 35.56  | 1.400 | 33.02  | 1.300 | 30.48  | 1.200 | 015-91-1288 |             |            |            |            |            |            |            |            | 28   |
| 30   | 38.10  | 1.500 | 35.56  | 1.400 | 33.02  | 1.300 | 015-91-1308 |             |            |            |            |            |            |            |            | 30   |
| 32   | 40.64  | 1.600 | 38.10  | 1.500 | 35.56  | 1.400 | 015-91-1328 |             |            |            |            |            |            |            |            | 32   |
| 34   | 43.18  | 1.700 | 40.64  | 1.600 | 38.10  | 1.500 | 015-91-1348 |             |            |            |            |            |            |            |            | 34   |
| 36   | 45.72  | 1.800 | 43.18  | 1.700 | 40.64  | 1.600 | 015-91-1368 |             |            |            |            |            |            |            |            | 36   |
| 38   | 48.26  | 1.900 | 45.72  | 1.800 | 43.18  | 1.700 | 015-91-1388 |             |            |            |            |            |            |            |            | 38   |
| 40   | 50.80  | 2.000 | 48.26  | 1.900 | 45.72  | 1.800 | 015-91-1408 | 015-91-6407 |            |            |            |            |            |            |            | 40   |
| 42   | 53.34  | 2.100 | 50.80  | 2.000 | 48.26  | 1.900 | 015-91-1428 |             |            |            |            |            |            |            |            | 42   |
| 44   | 55.88  | 2.200 | 53.34  | 2.100 | 50.80  | 2.000 | 015-91-1448 |             |            |            |            |            |            |            |            | 44   |
| 46   | 58.42  | 2.300 | 55.88  | 2.200 | 53.34  | 2.100 | 015-91-1468 |             |            |            |            |            |            |            |            | 46   |
| 48   | 60.96  | 2.400 | 58.42  | 2.300 | 55.88  | 2.200 | 015-91-1488 |             |            |            |            |            |            |            |            | 48   |
| 50   | 63.50  | 2.500 | 60.96  | 2.400 | 58.42  | 2.300 | 015-91-1508 | 015-91-6507 |            |            |            |            |            |            |            | 50   |
| 52   | 66.04  | 2.600 | 63.50  | 2.500 | 60.96  | 2.400 | 015-91-1528 |             |            |            |            |            |            |            |            | 52   |
| 54   | 68.58  | 2.700 | 66.04  | 2.600 | 63.50  | 2.500 | 015-91-1548 |             |            |            |            |            |            |            |            | 54   |
| 56   | 71.12  | 2.800 | 68.58  | 2.700 | 66.04  | 2.600 | 015-91-1568 |             |            |            |            |            |            |            |            | 56   |
| 58   | 73.66  | 2.900 | 71.12  | 2.800 | 68.58  | 2.700 | 015-91-1588 |             |            |            |            |            |            |            |            | 58   |
| 60   | 76.20  | 3.000 | 73.66  | 2.900 | 71.12  | 2.800 | 015-91-1608 |             |            |            |            |            |            |            |            | 60   |
| 62   | 78.74  | 3.100 | 76.20  | 3.000 | 73.66  | 2.900 | 015-91-1628 |             |            |            |            |            |            |            |            | 62   |
| 64   | 81.28  | 3.200 | 78.74  | 3.100 | 76.20  | 3.000 | 015-91-1648 |             |            |            |            |            |            |            |            | 64   |
| 66   | 83.82  | 3.300 | 81.28  | 3.200 | 78.74  | 3.100 | 015-91-1668 |             |            |            |            |            |            |            |            | 66   |
| 68   | 86.36  | 3.400 | 83.82  | 3.300 | 81.28  | 3.200 | 015-91-1688 |             |            |            |            |            |            |            |            | 68   |
| 70   | 88.90  | 3.500 | 86.36  | 3.400 | 83.82  | 3.300 | 015-91-1708 |             |            |            |            |            |            |            |            | 70   |
| 72   | 91.44  | 3.600 | 88.90  | 3.500 | 86.36  | 3.400 | 015-91-1728 |             |            |            |            |            |            |            |            | 72   |
| 74   | 93.98  | 3.700 | 91.44  | 3.600 | 88.90  | 3.500 | 015-91-1748 |             |            |            |            |            |            |            |            | 74   |
| 76   | 96.52  | 3.800 | 93.98  | 3.700 | 91.44  | 3.600 | 015-91-1768 |             |            |            |            |            |            |            |            | 76   |
| 78   | 99.06  | 3.900 | 96.52  | 3.800 | 93.98  | 3.700 | 015-91-1788 |             |            |            |            |            |            |            |            | 78   |
| 80   | 101.60 | 4.000 | 99.06  | 3.900 | 96.52  | 3.800 | 015-91-1808 |             |            |            |            |            |            |            |            | 80   |
| 82   | 104.14 | 4.100 | 101.60 | 4.000 | 99.06  | 3.900 | 71308-6082  |             |            |            |            |            |            |            |            | 82   |
| 84   | 106.68 | 4.200 | 104.14 | 4.100 | 101.60 | 4.000 | 71308-6084  |             |            |            |            |            |            |            |            | 84   |
| 86   | 109.22 | 4.300 | 106.68 | 4.200 | 104.14 | 4.100 | 71308-6086  |             |            |            |            |            |            |            |            | 86   |
| 88   | 111.76 | 4.400 | 109.22 | 4.300 | 106.68 | 4.200 | 71308-6088  |             |            |            |            |            |            |            |            | 88   |
| 90   | 114.30 | 4.500 | 111.76 | 4.400 | 109.22 | 4.300 | 71308-6090  |             |            |            |            |            |            |            |            | 90   |
| 92   | 116.84 | 4.600 | 114.30 | 4.500 | 111.76 | 4.400 | 71308-6092  |             |            |            |            |            |            |            |            | 92   |
| 94   | 119.38 | 4.700 | 116.84 | 4.600 | 114.30 | 4.500 | 71308-6094  |             |            |            |            |            |            |            |            | 94   |
| 96   | 121.92 | 4.800 | 119.38 | 4.700 | 116.84 | 4.600 | 71308-6096  |             |            |            |            |            |            |            |            | 96   |
| 98   | 124.46 | 4.900 | 121.92 | 4.800 | 119.38 | 4.700 | 71308-6098  |             |            |            |            |            |            |            |            | 98   |
| 100  | 127.00 | 5.000 | 124.46 | 4.900 | 121.92 | 4.800 | 71308-6100  |             |            |            |            |            |            |            |            | 100  |

SHORT PEG VERSION (.055")

|   |                     |                                       |               |                      |             |                    |              |                        |  |
|---|---------------------|---------------------------------------|---------------|----------------------|-------------|--------------------|--------------|------------------------|--|
| SEE SHEET 1<br>EC NO: UCP2009-2465<br>DRW:MKIPPER 2009/08/04<br>CHKD:SSOUSEK 2009/08/07<br>APPR:FSMITH 2009/08/10<br>K3       | QUALITY SYMBOLS<br> | GENERAL TOLERANCES (UNLESS SPECIFIED) |               | DIMENSION STYLE      |             | SCALE              | DESIGN UNITS | THIRD ANGLE PROJECTION |  |
|   |                     |                                       |               | MM/IN                |             |                    | INCH         |                        |  |
|   |                     |                                       |               | mm                   | INCH        | DRAWN BY           | DATE         |                        | TITLE  |
|   |                     |                                       |               | 4 PLACES ± --- ± --- | ± --- ± --- | KMS                | 1999/10/15   |                        | SALES ASSY INSULATOR<br>DUAL ROW SMT W/BREAK-OFF<br>.025SQ PIN GULLWING .100 |
|   |                     | 3 PLACES ± --- ± .005                 | ± .005 ± .010 | CHECKED BY           | DATE        | MOLEX INCORPORATED |              |                        |  |
|   |                     | 2 PLACES ± 0.13 ± .010                | ± .010 ± ---  | KMS                  | 1999/10/15  |                    | DOCUMENT NO. | SHEET NO.              |  |
|   |                     | 1 PLACE ± 0.25 ± ---                  | ± --- ± ---   | APPROVED BY          | DATE        | SD-71308-001       | 5 OF 6       |                        |  |
|   |                     | ANGULAR ± 1/2°                        |               | KMS                  | 1999/10/15  |                    |              |                        |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  |                     |                                       |               | SEE TABLE            |             |                    |              |                        |  |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                     |                                       |               |                      |             |                    |              |                        |  |

| J              | PEG OPTION                     |           |         |             |                           |                           |                |                           |                           |               |                          |                           |                           |                           |                           | J             |                           |             |  |
|----------------|--------------------------------|-----------|---------|-------------|---------------------------|---------------------------|----------------|---------------------------|---------------------------|---------------|--------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------|---------------------------|-------------|--|
|                | NO PEG VERSION                 |           |         |             |                           |                           | NO PEG VERSION |                           |                           |               | LONG PEG VERSION (.130') |                           |                           | SHORT PEG VERSION (.055') |                           |               |                           |             |  |
|                | PACKAGING<br>SEE NOTE 4, SHT 1 |           | 4-6 CKT |             | BULK                      | TAPE-N-REEL<br>W/VAC CAPS | N/A            | 4-8 CKT                   | TAPE-N-REEL<br>W/VAC CAPS | BULK          | BULK                     | BULK                      | TAPE-N-REEL<br>W/VAC CAPS | BULK                      | BULK                      |               | TAPE-N-REEL<br>W/VAC CAPS |             |  |
|                |                                | 8-100 CKT |         | TUBES       | TAPE-N-REEL<br>W/VAC CAPS | TUBES W/ VAC CAPS         | 10-100 CKT     | TAPE-N-REEL<br>W/VAC CAPS | TUBES                     | TUBES         | TUBES                    | TAPE-N-REEL<br>W/VAC CAPS | TUBES                     | BULK                      | TAPE-N-REEL<br>W/VAC CAPS |               |                           |             |  |
| DIM. M=0.25 MM |                                |           |         | 6.10 (.240) |                           |                           |                |                           |                           | 8.13(.320)    |                          | 13.59(.535)               |                           | 6.10(.240)                |                           | 8.13(.320)    |                           | 6.10 (.240) |  |
| PLATING        |                                |           |         | 59 TIN      |                           |                           |                |                           |                           | 59 TIN        |                          | 59 TIN                    |                           | 59 TIN                    |                           | 59 TIN        |                           | 59 TIN      |  |
| DIM. H         |                                |           |         | 2.54(.100)  |                           |                           |                |                           |                           | 4.57(.180)    |                          | 4.57(.180)                |                           | 2.54(.100)                |                           | 4.57(.180)    |                           | 2.54(.100)  |  |
| DIM. J         |                                |           |         | 5.08(.200)  |                           |                           |                |                           |                           | 7.11(.280)    |                          | 7.11(.280)                |                           | 5.08(.200)                |                           | 7.11(.280)    |                           | 5.08(.200)  |  |
| CKTS           | DIM. A                         |           | DIM. B  |             | DIM. C                    |                           | EDP<br>NUMBER  | EDP<br>NUMBER             | EDP<br>NUMBER             | EDP<br>NUMBER | EDP<br>NUMBER            | EDP<br>NUMBER             | EDP<br>NUMBER             | EDP<br>NUMBER             | EDP<br>NUMBER             | EDP<br>NUMBER | EDP<br>NUMBER             | CKTS        |  |
|                | MM                             | IN        | MM      | IN          | MM                        | IN                        |                |                           |                           |               |                          |                           |                           |                           |                           |               |                           |             |  |
| 04             | 5.08                           | .200      | 2.54    | .100        | ---                       | ---                       | 71308-5404     | 71308-5504                | N/A                       |               |                          |                           | 71308-6404                | 71308-6504                | 71308-6604                |               | 04                        |             |  |
| 06             | 7.62                           | .300      | 5.08    | .200        | 2.54                      | .100                      | 71308-5406     | 71308-5506                | N/A                       |               |                          |                           | 71308-6406                | 71308-6506                | 71308-6606                | 71308-6706    | 71308-6806                | 06          |  |
| 08             | 10.16                          | .400      | 7.62    | .300        | 5.08                      | .200                      | 71308-5408     | 71308-5508                | 71308-5608                |               |                          |                           | 71308-6408                | 71308-6508                | 71308-6608                | 71308-6708    | 71308-6808                | 08          |  |
| 10             | 12.70                          | .500      | 10.16   | .400        | 7.62                      | .300                      | 71308-5410     | 71308-5510                | 71308-5610                |               | 71308-5810               | 71308-5910                | 71308-6410                | 71308-6510                | 71308-6610                | 71308-6710    | 71308-6810                | 10          |  |
| 12             | 15.24                          | .600      | 12.70   | .500        | 10.16                     | .400                      | 71308-5412     | 71308-5512                | 71308-5612                |               |                          |                           | 71308-6412                |                           | 71308-6612                |               |                           | 12          |  |
| 14             | 17.78                          | .700      | 15.24   | .600        | 12.70                     | .500                      | 71308-5414     | 71308-5514                | 71308-5614                |               |                          |                           | 71308-6414                | 71308-6514                | 71308-6614                |               |                           | 14          |  |
| 16             | 20.32                          | .800      | 17.78   | .700        | 15.24                     | .600                      | 71308-5416     | 71308-5516                | 71308-5616                |               | 71308-5816               |                           | 71308-6416                | 71308-6516                | 71308-6616                |               |                           | 16          |  |
| 18             | 22.86                          | .900      | 20.32   | .800        | 17.78                     | .700                      | 71308-5418     |                           | 71308-5618                |               |                          |                           | 71308-6418                |                           | 71308-6618                |               |                           | 18          |  |
| 20             | 25.40                          | 1.000     | 22.86   | .900        | 20.32                     | .800                      | 71308-5420     | 71308-5520                | 71308-5620                |               |                          |                           | 71308-6420                |                           | 71308-6620                |               |                           | 20          |  |
| 22             | 27.94                          | 1.100     | 25.40   | 1.000       | 22.86                     | .900                      | 71308-5422     |                           | 71308-5622                |               |                          |                           | 71308-6422                |                           | 71308-6622                |               |                           | 22          |  |
| 24             | 30.48                          | 1.200     | 27.94   | 1.100       | 25.40                     | 1.000                     | 71308-5424     |                           | 71308-5624                |               | 71308-5724               | 71308-5824                | 71308-6424                |                           | 71308-6624                |               |                           | 24          |  |
| 26             | 33.02                          | 1.300     | 30.48   | 1.200       | 27.94                     | 1.100                     | 71308-5426     |                           | 71308-5626                |               |                          |                           | 71308-6426                |                           | 71308-6626                | 71308-6726    |                           | 26          |  |
| 28             | 35.56                          | 1.400     | 33.02   | 1.300       | 30.48                     | 1.200                     | 71308-5428     |                           | 71308-5628                |               |                          |                           | 71308-6428                |                           | 71308-6628                |               |                           | 28          |  |
| 30             | 38.10                          | 1.500     | 35.56   | 1.400       | 33.02                     | 1.300                     | 71308-5430     |                           | 71308-5630                |               |                          |                           | 71308-6430                |                           | 71308-6630                |               |                           | 30          |  |
| 32             | 40.64                          | 1.600     | 38.10   | 1.500       | 35.56                     | 1.400                     | 71308-5432     |                           | 71308-5632                |               |                          |                           | 71308-6432                |                           | 71308-6632                |               |                           | 32          |  |
| 34             | 43.18                          | 1.700     | 40.64   | 1.600       | 38.10                     | 1.500                     | 71308-5434     |                           | 71308-5634                |               |                          |                           | 71308-6434                |                           | 71308-6634                |               |                           | 34          |  |
| 36             | 45.72                          | 1.800     | 43.18   | 1.700       | 40.64                     | 1.600                     | 71308-5436     |                           | 71308-5636                |               |                          |                           | 71308-6436                |                           | 71308-6636                |               |                           | 36          |  |
| 38             | 48.26                          | 1.900     | 45.72   | 1.800       | 43.18                     | 1.700                     | 71308-5438     |                           | 71308-5638                |               |                          |                           | 71308-6438                |                           | 71308-6638                |               |                           | 38          |  |
| 40             | 50.80                          | 2.000     | 48.26   | 1.900       | 45.72                     | 1.800                     | 71308-5440     | 71308-5540                | 71308-5640                |               |                          |                           | 71308-6440                |                           | 71308-6640                |               |                           | 40          |  |
| 42             | 53.34                          | 2.100     | 50.80   | 2.000       | 48.26                     | 1.900                     | 71308-5442     |                           | 71308-5642                |               |                          |                           | 71308-6442                |                           | 71308-6642                |               |                           | 42          |  |
| 44             | 55.88                          | 2.200     | 53.34   | 2.100       | 50.80                     | 2.000                     | 71308-5444     |                           | 71308-5644                |               |                          |                           | 71308-6444                |                           | 71308-6644                |               |                           | 44          |  |
| 46             | 58.42                          | 2.300     | 55.88   | 2.200       | 53.34                     | 2.100                     | 71308-5446     |                           | 71308-5646                |               |                          |                           | 71308-6446                |                           | 71308-6646                |               |                           | 46          |  |
| 48             | 60.96                          | 2.400     | 58.42   | 2.300       | 55.88                     | 2.200                     | 71308-5448     |                           | 71308-5648                |               |                          |                           | 71308-6448                |                           | 71308-6648                |               |                           | 48          |  |
| 50             | 63.50                          | 2.500     | 60.96   | 2.400       | 58.42                     | 2.300                     | 71308-5450     | 71308-5550                | 71308-5650                |               |                          |                           | 71308-6450                | 71308-6550                | 71308-6650                |               |                           | 50          |  |
| 52             | 66.04                          | 2.600     | 63.50   | 2.500       | 60.96                     | 2.400                     | 71308-5452     |                           | 71308-5652                |               |                          |                           | 71308-6452                |                           | 71308-6652                |               |                           | 52          |  |
| 54             | 68.58                          | 2.700     | 66.04   | 2.600       | 63.50                     | 2.500                     | 71308-5454     |                           | 71308-5654                |               |                          |                           | 71308-6454                |                           | 71308-6654                |               |                           | 54          |  |
| 56             | 71.12                          | 2.800     | 68.58   | 2.700       | 66.04                     | 2.600                     | 71308-5456     |                           | 71308-5656                |               |                          |                           | 71308-6456                |                           | 71308-6656                |               |                           | 56          |  |
| 58             | 73.66                          | 2.900     | 71.12   | 2.800       | 68.58                     | 2.700                     | 71308-5458     |                           | 71308-5658                |               |                          |                           | 71308-6458                |                           | 71308-6658                |               |                           | 58          |  |
| 60             | 76.20                          | 3.000     | 73.66   | 2.900       | 71.12                     | 2.800                     | 71308-5460     |                           | 71308-5660                |               |                          |                           | 71308-6460                |                           | 71308-6660                |               |                           | 60          |  |
| 62             | 78.74                          | 3.100     | 76.20   | 3.000       | 73.66                     | 2.900                     | 71308-5462     |                           | 71308-5662                |               |                          |                           | 71308-6462                |                           | 71308-6662                |               |                           | 62          |  |
| 64             | 81.28                          | 3.200     | 78.74   | 3.100       | 76.20                     | 3.000                     | 71308-5464     |                           | 71308-5664                |               |                          |                           | 71308-6464                |                           | 71308-6664                |               |                           | 64          |  |
| 66             | 83.82                          | 3.300     | 81.28   | 3.200       | 78.74                     | 3.100                     | 71308-5466     |                           | 71308-5666                |               |                          |                           | 71308-6466                |                           | 71308-6666                |               |                           | 66          |  |
| 68             | 86.36                          | 3.400     | 83.82   | 3.300       | 81.28                     | 3.200                     | 71308-5468     |                           | 71308-5668                |               |                          |                           | 71308-6468                |                           | 71308-6668                |               |                           | 68          |  |
| 70             | 88.90                          | 3.500     | 86.36   | 3.400       | 83.82                     | 3.300                     | 71308-5470     |                           | 71308-5670                |               |                          |                           | 71308-6470                |                           | 71308-6670                |               |                           | 70          |  |
| 72             | 91.44                          | 3.600     | 88.90   | 3.500       | 86.36                     | 3.400                     | 71308-5472     |                           | 71308-5672                |               |                          |                           | 71308-6472                |                           | 71308-6672                |               |                           | 72          |  |
| 74             | 93.98                          | 3.700     | 91.44   | 3.600       | 88.90                     | 3.500                     | 71308-5474     |                           | 71308-5674                |               |                          |                           | 71308-6474                |                           | 71308-6674                |               |                           | 74          |  |
| 76             | 96.52                          | 3.800     | 93.98   | 3.700       | 91.44                     | 3.600                     | 71308-5476     |                           | 71308-5676                |               |                          |                           | 71308-6476                |                           | 71308-6676                |               |                           | 76          |  |
| 78             | 99.06                          | 3.900     | 96.52   | 3.800       | 93.98                     | 3.700                     | 71308-5478     |                           | 71308-5678                |               |                          |                           | 71308-6478                |                           | 71308-6678                |               |                           | 78          |  |
| 80             | 101.60                         | 4.000     | 99.06   | 3.900       | 96.52                     | 3.800                     | 71308-5480     |                           | 71308-5680                |               |                          |                           | 71308-6480                |                           | 71308-6680                |               |                           | 80          |  |
| 82             | 104.14                         | 4.100     | 101.60  | 4.000       | 99.06                     | 3.900                     | 71308-5482     |                           | 71308-5682                |               |                          |                           | 71308-6482                |                           | 71308-6682                |               |                           | 82          |  |
| 84             | 106.68                         | 4.200     | 104.14  | 4.100       | 101.60                    | 4.000                     | 71308-5484     |                           | 71308-5684                |               |                          |                           | 71308-6484                |                           | 71308-6684                |               |                           | 84          |  |
| 86             | 109.22                         | 4.300     | 106.68  | 4.200       | 104.14                    | 4.100                     | 71308-5486     |                           | 71308-5686                |               |                          |                           | 71308-6486                |                           | 71308-6686                |               |                           | 86          |  |
| 88             | 111.76                         | 4.400     | 109.22  | 4.300       | 106.68                    | 4.200                     | 71308-5488     |                           | 71308-5688                |               |                          |                           | 71308-6488                |                           | 71308-6688                |               |                           | 88          |  |
| 90             | 114.30                         | 4.500     | 111.76  | 4.400       | 109.22                    | 4.300                     | 71308-5490     |                           | 71308-5690                |               |                          |                           | 71308-6490                |                           | 71308-6690                |               |                           | 90          |  |
| 92             | 116.84                         | 4.600     | 114.30  | 4.500       | 111.76                    | 4.400                     | 71308-5492     |                           | 71308-5692                |               |                          |                           | 71308-6492                |                           | 71308-6692                |               |                           | 92          |  |
| 94             | 119.38                         | 4.700     | 116.84  | 4.600       | 114.30                    | 4.500                     | 71308-5494     |                           | 71308-5694                |               |                          |                           | 71308-6494                |                           | 71308-6694                |               |                           | 94          |  |
| 96             | 121.92                         | 4.800     | 119.38  | 4.700       | 116.84                    | 4.600                     | 71308-5496     |                           | 71308-5696                |               |                          |                           | 71308-6496                |                           | 71308-6696                |               |                           | 96          |  |
| 98             | 124.46                         | 4.900     | 121.92  | 4.800       | 119.38                    | 4.700                     | 71308-5498     |                           | 71308-5698                |               |                          |                           | 71308-6498                |                           | 71308-6698                |               |                           | 98          |  |
| 100            | 127.00                         | 5.000     | 124.46  | 4.900       | 121.92                    | 4.800                     | 71308-5500     |                           | 71308-5700                |               |                          |                           | 71308-6500                |                           | 71308-6700                |               |                           | 100         |  |

59 TIN PLATE ASSEMBLIES

SEE SHEET 1  
 EC NO: UCP2009-2465  
 DRAWN: KIPPER 2009/08/04  
 CHKD: SSOUSEK 2009/08/07  
 APPR: F.SMLTH 2009/08/10

REVISIONS  
 DESCRIPTION  
 REV 1  
 K3

QUALITY SYMBOLS  
 ▽=0  
 ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

|               |        |         |
|---------------|--------|---------|
|               | mm     | INCH    |
| 4 PLACES      | ± .005 | ± .0005 |
| 3 PLACES      | ± .010 | ± .0010 |
| 2 PLACES      | ± 0.13 | ± .010  |
| 1 PLACE       | ± 0.25 | ± .010  |
| ANGULAR ±1/2° |        |         |

DRAFT WHERE APPLICABLE  
 MUST REMAIN  
 WITHIN DIMENSIONS

DIMENSION STYLE  
**MM/IN**

SCALE  
**1:1**

DESIGN UNITS  
**INCH**

THIRD ANGLE PROJECTION

DRAWN BY  
 KMS DATE  
 1999/10/15

CHECKED BY  
 KMS DATE  
 1999/10/15

APPROVED BY  
 KMS DATE  
 1999/10/15

MATERIAL NO.  
**SEE TABLE**

DOCUMENT NO.  
**SD-71308-001**

SHEET NO.  
**6 OF 6**

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

TITLE  
**SALES ASSY INSULATOR  
 DUAL ROW SMT W/BREAK-OFF  
 .025SQ PIN GULLWING .100**

**MOLEX INCORPORATED**