

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0901301214

Status:

Active

Overview:

cgrid\_iii

Description:

2.54mm (.100") Pitch C-Grid III™ Header, Dual Row, Vertical, Shrouded, Fully Loaded, 14 Circuits, Black, 0.38µm (15µ") Gold (Au) Selective Plating

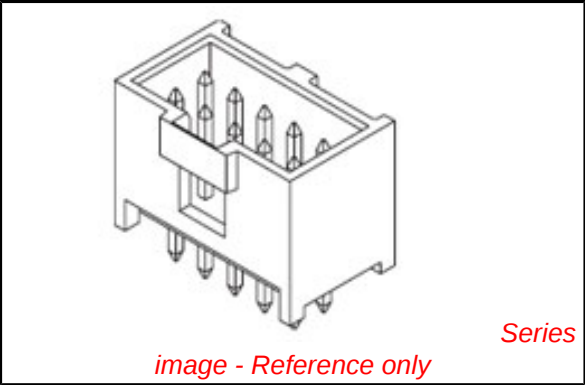
Documents:

3D Model

RoHS Certificate of Compliance (PDF)

Drawing (PDF)

| General                        |                 |
|--------------------------------|-----------------|
| Product Family                 | PCB Headers     |
| Series                         | 90130           |
| Application                    | Wire-to-Board   |
| Overview                       | cgrid_iii       |
| Product Name                   | C-Grid III™     |
| Physical                       |                 |
| Breakaway                      | No              |
| Circuits (Loaded)              | 14              |
| Circuits (maximum)             | 14              |
| Color - Resin                  | Black           |
| Durability (mating cycles max) | 100             |
| First Mate / Last Break        | No              |
| Glow-Wire Compliant            | No              |
| Guide to Mating Part           | No              |
| Keying to Mating Part          | None            |
| Lock to Mating Part            | Yes             |
| Material - Metal               | Brass           |
| Material - Plating Mating      | Gold            |
| Material - Plating Termination | Tin             |
| Material - Resin               | Polyester       |
| Number of Rows                 | 2               |
| Orientation                    | Vertical        |
| PC Tail Length (in)            | 0.114 In        |
| PC Tail Length (mm)            | 2.90 mm         |
| PCB Locator                    | No              |
| PCB Retention                  | None            |
| PCB Thickness Recommended (in) | 0.063 In        |
| PCB Thickness Recommended (mm) | 1.60 mm         |
| Packaging Type                 | Tray            |
| Pitch - Mating Interface (in)  | 0.100 In        |
| Pitch - Mating Interface (mm)  | 2.54 mm         |
| Pitch - Term. Interface (in)   | 0.100 In        |
| Pitch - Term. Interface (mm)   | 2.54 mm         |
| Plating min: Mating (µin)      | 15.2            |
| Plating min: Mating (µm)       | 0.38            |
| Plating min: Termination (µin) | 120             |
| Plating min: Termination (µm)  | 3               |
| Polarized to Mating Part       | Yes             |
| Polarized to PCB               | No              |
| Shrouded                       | Closed Ends     |
| Stackable                      | No              |
| Surface Mount Compatible (SMC) | No              |
| Temperature Range - Operating  | -55°C to +125°C |
| Termination Interface: Style   | Through Hole    |



EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Not Halogen-Free

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

90130Series

Mates With

90142 C-Grid III™ Crimp Housing

**Electrical**

|                               |            |
|-------------------------------|------------|
| Current - Maximum per Contact | 3A         |
| Voltage - Maximum             | 350V AC/DC |

**Solder Process Data**

|                                                |                        |
|------------------------------------------------|------------------------|
| Duration at Max. Process Temperature (seconds) | 5                      |
| Lead-free Process Capability                   | Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature        | 1                      |
| Process Temperature max. C                     | 260                    |

**Material Info**

**Reference - Drawing Numbers**

|                         |                            |
|-------------------------|----------------------------|
| Packaging Specification | PK-90130-001, PK-91814-005 |
| Sales Drawing           | SDA-90130                  |

This document was generated on 05/25/2010

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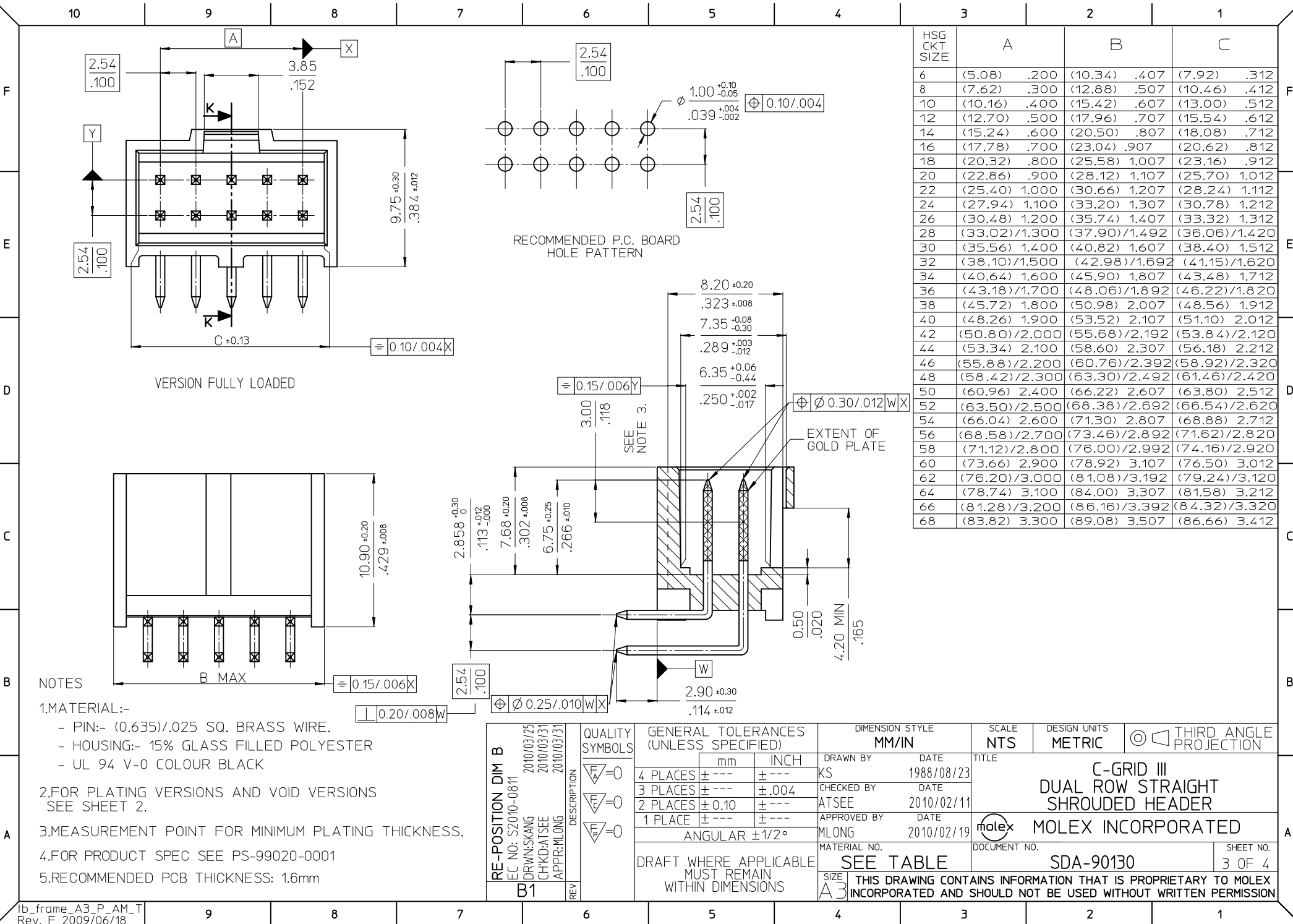
|   |                      |                    |                   |                   |                   |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|---|----------------------|--------------------|-------------------|-------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|--|--|--|--|--|
|   | 10                   | 9                  | 8                 | 7                 | 6                 | 5                                                                                                                                                                                                                                                                                          | 4 | 3 | 2 | 1 |  |  |  |  |  |
|   | NO<br>OF<br>CKTS     | HSG<br>CKT<br>SIZE | PART NUMBER       |                   |                   | NOTES:<br>1. FOR ASSY SEE SHEET 1.<br>2. FOR PLATING DETAILS SEE SDES-99000-0003                                                                                                                                                                                                           |   |   |   |   |  |  |  |  |  |
|   |                      |                    | PLATING<br>TYPE A | PLATING<br>TYPE E | PLATING<br>TYPE F |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
| F | 6                    | 6                  | 90130-X106        | 90130-X206        | 90130-X306        | 90130 - * * * *<br>INDICATES CIRCUIT HOUSING SIZE<br>(EXCEPTION ON VOIDED OPTION -<br>SEE TABLE FOR HOUSING CIRCUIT SIZE)<br><br>PLATING<br>1 - TYPE A<br>2 - TYPE E<br>3 - TYPE F<br>4 - TYPE G<br><br>STYLE: - STRAIGHT ASSY<br>- 1. VERSION FULLY LOADED BLACK<br>8. VERSION WITH VOIDS |   |   |   |   |  |  |  |  |  |
|   | 8                    | 8                  | X108              | X208              | X308              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 10                   | 10                 | X110              | X210              | X310              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 12                   | 12                 | X112              | X212              | X312              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 14                   | 14                 | X114              | X214              | X314              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 16                   | 16                 | X116              | X216              | X316              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 18                   | 18                 | X118              | X218              | X318              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 20                   | 20                 | X120              | X220              | X320              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
| E | 22                   | 22                 | X122              | X222              | X322              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 24                   | 24                 | X124              | X224              | X324              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 26                   | 26                 | X126              | X226              | X326              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 28                   | 28                 | X128              | X228              | X328              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
| D | 30                   | 30                 | X130              | X230              | X330              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 32                   | 32                 | X132              | X232              | X332              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 34                   | 34                 | X134              | X234              | X334              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 36                   | 36                 | X136              | X236              | X336              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 38                   | 38                 | X138              | X238              | X338              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 40                   | 40                 | X140              | X240              | X340              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 42                   | 42                 | X142              | X242              | X342              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 44                   | 44                 | X144              | X244              | X344              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
| C | 46                   | 46                 | X146              | X246              | X346              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 48                   | 48                 | X148              | X248              | X348              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 50                   | 50                 | X150              | X250              | X350              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 52                   | 52                 | X152              | X252              | X352              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 54                   | 54                 | X154              | X254              | X354              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 56                   | 56                 | X156              | X256              | X356              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 58                   | 58                 | X158              | X258              | X358              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 60                   | 60                 | X160              | X260              | X360              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
| B | 62                   | 62                 | X162              | X262              | X362              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 64                   | 64                 | X164              | X264              | X364              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 66                   | 66                 | X166              | X266              | X366              |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | 68                   | 68                 | 90130-X168        | 90130-X268        | 90130-X368        |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   | VERSION FULLY LOADED |                    |                   |                   |                   |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   |                      |                    |                   |                   |                   |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   |                      |                    |                   |                   |                   |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   |                      |                    |                   |                   |                   |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
| A |                      |                    |                   |                   |                   |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |
|   |                      |                    |                   |                   |                   |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |  |  |  |  |

|                  |                    |                       |                  |                 |
|------------------|--------------------|-----------------------|------------------|-----------------|
| NO<br>OF<br>CKTS | HSG<br>CKT<br>SIZE | VOIDED PART<br>NUMBER | VOID<br>POSITION | PLATING<br>TYPE |
| 11               | 12                 | 90130-8212            | 12               | E               |
| 9                | 10                 | 90130-8309            | 2                | F               |
| 9                | 10                 | 90130-8311            | 1                | F               |
| 11               | 12                 | 90130-8213            | 2                | E               |
| 11               | 12                 | 90130-8313            | 2                | F               |

VOIDED OPTION

|                                                                                  |                                        |                    |                    |                                                                                        |                                                            |                                                                                                                                  |                |                           |                                                                                   |                           |                     |
|----------------------------------------------------------------------------------|----------------------------------------|--------------------|--------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------|-----------------------------------------------------------------------------------|---------------------------|---------------------|
| RE-POSITION DIM B<br>EC NO: S2010-0811<br>DRWN:SKANG<br>CHKD:ATSEE<br>APPR:MLONG | 2010/03/25<br>2010/03/31<br>2010/03/31 | DESCRIPTION<br>REV | QUALITY<br>SYMBOLS | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                               |                                                            | DIMENSION STYLE<br>MM/IN                                                                                                         |                | SCALE<br>NTS              | DESIGN UNITS<br>METRIC                                                            | THIRD ANGLE<br>PROJECTION |                     |
|                                                                                  |                                        |                    | <br><br>           | 4 PLACES ± ---<br>3 PLACES ± ---<br>2 PLACES ± 0.10<br>1 PLACE ± ---<br>ANGULAR ± 1/2° | mm                                                         | INCH                                                                                                                             | DRAWN BY<br>KS | DATE<br>1988/08/23        | TITLE<br>C-GRID III<br>DUAL ROW STRAIGHT<br>SHROUDED HEADER<br>MOLEX INCORPORATED |                           |                     |
|                                                                                  |                                        |                    |                    |                                                                                        | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS | ± ---                                                                                                                            | ± .004         | CHECKED BY<br>ATSEE       |                                                                                   |                           | DATE<br>2010/02/11  |
|                                                                                  |                                        |                    |                    |                                                                                        |                                                            | ± ---                                                                                                                            | ± ---          | APPROVED BY<br>MLONG      |                                                                                   |                           | DATE<br>2010/02/19  |
|                                                                                  |                                        |                    |                    |                                                                                        |                                                            | MATERIAL NO.<br>SEE TABLE                                                                                                        |                | DOCUMENT NO.<br>SDA-90130 |                                                                                   |                           | SHEET NO.<br>2 OF 4 |
|                                                                                  |                                        |                    |                    |                                                                                        |                                                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                |                           |                                                                                   |                           |                     |

tb\_frame\_A3\_P\_AM\_T  
Rev. F 2009/06/18



| HSG CKT SIZE | A             | B             | C             |
|--------------|---------------|---------------|---------------|
| 6            | (5.08) .200   | (10.34) .407  | (7.92) .312   |
| 8            | (7.62) .300   | (12.88) .507  | (10.46) .412  |
| 10           | (10.16) .400  | (15.42) .607  | (13.00) .512  |
| 12           | (12.70) .500  | (17.96) .707  | (15.54) .612  |
| 14           | (15.24) .600  | (20.50) .807  | (18.08) .712  |
| 16           | (17.78) .700  | (23.04) .907  | (20.62) .812  |
| 18           | (20.32) .800  | (25.58) 1.007 | (23.16) .912  |
| 20           | (22.86) .900  | (28.12) 1.107 | (25.70) 1.012 |
| 22           | (25.40) 1.000 | (30.66) 1.207 | (28.24) 1.112 |
| 24           | (27.94) 1.100 | (33.20) 1.307 | (30.78) 1.212 |
| 26           | (30.48) 1.200 | (35.74) 1.407 | (33.32) 1.312 |
| 28           | (33.02)/1.300 | (37.90)/1.492 | (36.06)/1.420 |
| 30           | (35.56) 1.400 | (40.82) 1.607 | (38.40) 1.512 |
| 32           | (38.10)/1.500 | (42.98)/1.692 | (41.15)/1.620 |
| 34           | (40.64) 1.600 | (45.90) 1.807 | (43.48) 1.712 |
| 36           | (43.18)/1.700 | (48.06)/1.892 | (46.22)/1.820 |
| 38           | (45.72) 1.800 | (50.98) 2.007 | (48.56) 1.912 |
| 40           | (48.26) 1.900 | (53.52) 2.107 | (51.10) 2.012 |
| 42           | (50.80)/2.000 | (55.68)/2.192 | (53.84)/2.120 |
| 44           | (53.34) 2.100 | (58.60) 2.307 | (56.18) 2.212 |
| 46           | (55.88)/2.200 | (60.76)/2.392 | (58.92)/2.320 |
| 48           | (58.42)/2.300 | (63.30)/2.492 | (61.46)/2.420 |
| 50           | (60.96) 2.400 | (66.22) 2.607 | (63.80) 2.512 |
| 52           | (63.50)/2.500 | (68.38)/2.692 | (66.54)/2.620 |
| 54           | (66.04) 2.600 | (71.30) 2.807 | (68.88) 2.712 |
| 56           | (68.58)/2.700 | (73.46)/2.892 | (71.62)/2.820 |
| 58           | (71.12)/2.800 | (76.00)/2.992 | (74.16)/2.920 |
| 60           | (73.66) 2.900 | (78.92) 3.107 | (76.50) 3.012 |
| 62           | (76.20)/3.000 | (81.08)/3.192 | (79.24)/3.120 |
| 64           | (78.74) 3.100 | (84.00) 3.307 | (81.58) 3.212 |
| 66           | (81.28)/3.200 | (86.16)/3.392 | (84.32)/3.320 |
| 68           | (83.82) 3.300 | (89.08) 3.507 | (86.66) 3.412 |

- NOTES
- 1.MATERIAL:-
- PIN:- (0.635)/.025 SQ. BRASS WIRE.
  - HOUSING:- 15% GLASS FILLED POLYESTER
  - UL 94 V-0 COLOUR BLACK
- 2.FOR PLATING VERSIONS AND VOID VERSIONS SEE SHEET 2.
- 3.MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS.
- 4.FOR PRODUCT SPEC SEE PS-99020-0001
- 5.RECOMMENDED PCB THICKNESS: 1.6mm

|                                                                                       |                                                      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| RE-POSITION DIM B<br>EC NO: S2010-0811<br>DRWN:KANG<br>CHKD:ATSEE<br>APPR:MLONG<br>B1 | 2010/03/25<br>2010/03/31<br>2010/03/31<br>2010/03/31 | DESCRIPTION | QUALITY SYMBOLS<br><div><div><div><div><div></div></div></div><div><div><div></div></div></div><div><div><div></div></div></div></div><div><div><div></div></div></div><div><div><div></div></div></div><div><div><div></div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> 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|   | 10                   | 9                  | 8                 | 7                 | 6                 | 5                                                                                                                                                                                                                                                                                                                                                                              | 4 | 3 | 2 | 1 |   |  |  |  |  |  |
|---|----------------------|--------------------|-------------------|-------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|--|--|--|--|--|
|   | NO<br>OF<br>CKTS     | HSG<br>CKT<br>SIZE | PART NUMBER       |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   |                      |                    | PLATING<br>TYPE A | PLATING<br>TYPE E | PLATING<br>TYPE F |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
| F | 6                    | 6                  | 90130-X106        | 90130-X206        | 90130-X306        | <div>NOTES:</div> <div>1. FOR ASSY SEE SHEET 3.</div> <div>2. FOR PLATING DETAILS SEE SDES-99000-0003</div> <div><div>90130 - * * * *</div><div>INDICATES CIRCUIT HOUSING SIZE</div><div>PLATING</div><div>1 - TYPE A</div><div>2 - TYPE E</div><div>3 - TYPE F</div><div>STYLE:- RIGHT ANGLE ASSY</div><div>- 3 VERSION FULLY LOADED BLACK</div></div> <td rowspan="6">F</td> |   |   |   |   | F |  |  |  |  |  |
|   | 8                    | 8                  | X108              | X208              | X308              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 10                   | 10                 | X110              | X210              | X310              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 12                   | 12                 | X112              | X212              | X312              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 14                   | 14                 | X114              | X214              | X314              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 16                   | 16                 | X116              | X216              | X316              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
| E | 18                   | 18                 | X118              | X218              | X318              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   | E |  |  |  |  |  |
|   | 20                   | 20                 | X120              | X220              | X320              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 22                   | 22                 | X122              | X222              | X322              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 24                   | 24                 | X124              | X224              | X324              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 26                   | 26                 | X126              | X226              | X326              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 28                   | 28                 | X128              | X228              | X328              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
| D | 30                   | 30                 | X130              | X230              | X330              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   | D |  |  |  |  |  |
|   | 32                   | 32                 | X132              | X232              | X332              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 34                   | 34                 | X134              | X234              | X334              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 36                   | 36                 | X136              | X236              | X336              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 38                   | 38                 | X138              | X238              | X338              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 40                   | 40                 | X140              | X240              | X340              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
| C | 42                   | 42                 | X142              | X242              | X342              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   | C |  |  |  |  |  |
|   | 44                   | 44                 | X144              | X244              | X344              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 46                   | 46                 | X146              | X246              | X346              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 48                   | 48                 | X148              | X248              | X348              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 50                   | 50                 | X150              | X250              | X350              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 52                   | 52                 | X152              | X252              | X352              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
| B | 54                   | 54                 | X154              | X254              | X354              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   | B |  |  |  |  |  |
|   | 56                   | 56                 | X156              | X256              | X356              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 58                   | 58                 | X158              | X258              | X358              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 60                   | 60                 | X160              | X260              | X360              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 62                   | 62                 | X162              | X262              | X362              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | 64                   | 64                 | X164              | X264              | X364              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
| A | 66                   | 66                 | X166              | X266              | X366              |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   | A |  |  |  |  |  |
|   | 68                   | 68                 | 90130-X168        | 90130-X268        | 90130-X368        |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   | VERSION FULLY LOADED |                    |                   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |
|   |                      |                    |                   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |  |  |  |  |

|                                                                                  |                    |                                         |                                                            |        |                                                                                                                                  |                      |                    |                                                                                   |                           |  |
|----------------------------------------------------------------------------------|--------------------|-----------------------------------------|------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------|-----------------------------------------------------------------------------------|---------------------------|--|
| RE-POSITION DIM B<br>EC NO: S2010-0811<br>DRWN:SKANG<br>CHKD:ATSEE<br>APPR:MLONG | DESCRIPTION<br>REV | QUALITY<br>SYMBOLS<br>F=0<br>F=0<br>F=0 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        | DIMENSION STYLE<br>MM/IN                                                                                                         |                      | SCALE<br>NTS       | DESIGN UNITS<br>METRIC                                                            | THIRD ANGLE<br>PROJECTION |  |
|                                                                                  |                    |                                         | 4 PLACES<br>3 PLACES<br>2 PLACES<br>1 PLACE                | mm     | INCH                                                                                                                             | DRAWN BY<br>KS       | DATE<br>1988/08/23 | TITLE<br>C-GRID III<br>DUAL ROW STRAIGHT<br>SHROUDED HEADER<br>MOLEX INCORPORATED | SHEET NO.<br>4 OF 4       |  |
|                                                                                  |                    |                                         |                                                            | ± ---  | ± ---                                                                                                                            | CHECKED BY<br>ATSEE  | DATE<br>2010/02/11 |                                                                                   |                           |  |
|                                                                                  |                    |                                         |                                                            | ± 0.10 | ± ---                                                                                                                            | APPROVED BY<br>MLONG | DATE<br>2010/02/19 |                                                                                   |                           |  |
|                                                                                  |                    |                                         |                                                            | ± ---  | ± ---                                                                                                                            | MATERIAL NO.         | DOCUMENT NO.       |                                                                                   |                           |  |
|                                                                                  |                    |                                         | ANGULAR ±1/2°                                              |        | SEE TABLE                                                                                                                        |                      | SDA-90130          |                                                                                   |                           |  |
|                                                                                  |                    |                                         | 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 |                      |                    |                                                                                   |                           |  |
|                                                                                  |                    |                                         | B1                                                         |        |                                                                                                                                  |                      |                    |                                                                                   |                           |  |

tb\_frame\_A3\_P\_AM\_T  
Rev. F 2009/06/18

|  | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
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NOTES:

1. FOR ASSY SEE SHEET 3.
2. FOR PLATING DETAILS SEE SDES-99000-0003

90130 - \* \* \* \*

INDICATES CIRCUIT HOUSING SIZE

PLATING

1 - TYPE A  
2 - TYPE E  
3 - TYPE F

STYLE:- RIGHT ANGLE ASSY  
- 3 VERSION FULLY LOADED BLACK

| NO<br>OF<br>CKTS | HSG<br>CKT<br>SIZE | PART NUMBER       |                   |                   |
|------------------|--------------------|-------------------|-------------------|-------------------|
|                  |                    | PLATING<br>TYPE A | PLATING<br>TYPE E | PLATING<br>TYPE F |
| 6                | 6                  | 90130-X106        | 90130-X206        | 90130-X306        |
| 8                | 8                  | X108              | X208              | X308              |
| 10               | 10                 | X110              | X210              | X310              |
| 12               | 12                 | X112              | X212              | X312              |
| 14               | 14                 | X114              | X214              | X314              |
| 16               | 16                 | X116              | X216              | X316              |
| 18               | 18                 | X118              | X218              | X318              |
| 20               | 20                 | X120              | X220              | X320              |
| 22               | 22                 | X122              | X222              | X322              |
| 24               | 24                 | X124              | X224              | X324              |
| 26               | 26                 | X126              | X226              | X326              |
| 28               | 28                 | X128              | X228              | X328              |
| 30               | 30                 | X130              | X230              | X330              |
| 32               | 32                 | X132              | X232              | X332              |
| 34               | 34                 | X134              | X234              | X334              |
| 36               | 36                 | X136              | X236              | X336              |
| 38               | 38                 | X138              | X238              | X338              |
| 40               | 40                 | X140              | X240              | X340              |
| 42               | 42                 | X142              | X242              | X342              |
| 44               | 44                 | X144              | X244              | X344              |
| 46               | 46                 | X146              | X246              | X346              |
| 48               | 48                 | X148              | X248              | X348              |
| 50               | 50                 | X150              | X250              | X350              |
| 52               | 52                 | X152              | X252              | X352              |
| 54               | 54                 | X154              | X254              | X354              |
| 56               | 56                 | X156              | X256              | X356              |
| 58               | 58                 | X158              | X258              | X358              |
| 60               | 60                 | X160              | X260              | X360              |
| 62               | 62                 | X162              | X262              | X362              |
| 64               | 64                 | X164              | X264              | X364              |
| 66               | 66                 | X166              | X266              | X366              |
| 68               | 68                 | 90130-X168        | 90130-X268        | 90130-X368        |

| NO<br>OF<br>CKTS | HSG<br>CKT<br>SIZE | VOIDED PART<br>NUMBER | VOID<br>POSITION | PLATING<br>TYPE |
|------------------|--------------------|-----------------------|------------------|-----------------|
| 11               | 12                 | 90130-8212            | 12               | E               |
| 9                | 10                 | 90130-8309            | 2                | F               |
| 9                | 10                 | 90130-8311            | 1                | F               |
| 11               | 12                 | 90130-8213            | 2                | E               |
| 11               | 12                 | 90130-8313            | 2                | F               |

VOIDED OPTION

NOTES:  
1. FOR ASSY SEE SHEET 1.  
2. FOR PLATING DETAILS SEE SDES-99000-0003

90130 - \* \* \* \*  
INDICATES CIRCUIT HOUSING SIZE  
(EXCEPTION ON VOIDED OPTION -  
SEE TABLE FOR HOUSING CIRCUIT SIZE)  
PLATING  
1 - TYPE A  
2 - TYPE E  
3 - TYPE F  
4 - TYPE G  
STYLE\* - STRAIGHT ASSY  
- 1. VERSION FULLY LOADED BLACK  
8. VERSION WITH VOIDS

VERSION FULLY LOADED

Changed 8212 to void 2  
EC NO: E2010-0123  
DRWN:BMAGUIRE 2009/10/15  
CHKD: 2009/10/15  
APPR:BMAGUIRE 2009/10/15

DESCRIPTION  
REV

QUALITY SYMBOLS  
=0  
=0

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

DIMENSION STYLE  
MM ONLY

DRAWN BY DATE  
KS 1987/09/10  
CHECKED BY DATE  
APPROVED BY DATE

MATERIAL NO.  
SEE CHART  
SIZE A2

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

SCALE  
1:1

DESIGN UNITS  
METRIC

THIRD ANGLE PROJECTION

C-GRID III DUAL ROW  
STRAIGHT SHROUDED  
HEADER  
MOLEX INCORPORATED  
SDA-90130  
SHEET NO.  
2 OF 4

lb\_frame\_A2\_P\_ME\_T  
Rev. E 2006/04/15

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