

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

**Part Number:** [0705550009](#)  
**Status:** **Active**  
**Overview:** [cgrid\\_sl\\_products](#)  
**Description:** 2.54mm (.100") Pitch SL™ Header, Single Row, Right Angle, .120" Pocket, Shrouded, with Press-fit Plastic Peg, 10 Circuits, Tin (Sn) Plating

**Documents:**

|                                               |                                                      |
|-----------------------------------------------|------------------------------------------------------|
| <a href="#">3D Model</a>                      | <a href="#">Product Specification PS-70400 (PDF)</a> |
| <a href="#">Drawing (PDF)</a>                 | <a href="#">Product Specification PS-70541 (PDF)</a> |
| <a href="#">Packaging Specification (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a> |

**Agency Certification**

|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                |                                   |
|----------------|-----------------------------------|
| Product Family | PCB Headers                       |
| Series         | <a href="#">70555</a>             |
| Application    | Wire-to-Board                     |
| Overview       | <a href="#">cgrid_sl_products</a> |
| Product Name   | SL™                               |

**Physical**

|                                |                                |
|--------------------------------|--------------------------------|
| Breakaway                      | No                             |
| Circuits (Loaded)              | 10                             |
| Circuits (maximum)             | 10                             |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 25                             |
| Flammability                   | 94V-0                          |
| Glow-Wire Compliant            | No                             |
| Guide to Mating Part           | Yes                            |
| Lock to Mating Part            | Yes                            |
| Material - Metal               | Brass, Phosphor Bronze         |
| Material - Plating Mating      | Tin                            |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Rows                 | 1                              |
| Orientation                    | Right Angle                    |
| PC Tail Length (in)            | 0.130 In                       |
| PC Tail Length (mm)            | 3.30 mm                        |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness Recommended (in) | 0.062 In                       |
| PCB Thickness Recommended (mm) | 1.60 mm                        |
| Packaging Type                 | Tube                           |
| Pitch - Mating Interface (in)  | 0.100 In                       |
| Pitch - Mating Interface (mm)  | 2.54 mm                        |
| Plating min: Mating (µin)      | 150                            |
| Plating min: Mating (µm)       | 3.75                           |
| Plating min: Termination (µin) | 150                            |
| Plating min: Termination (µm)  | 3.75                           |
| Polarized to Mating Part       | Yes                            |
| Shrouded                       | Fully                          |
| Stackable                      | No                             |
| Temperature Range - Operating  | -40°C to +105°C                |
| Termination Interface: Style   | Through Hole                   |

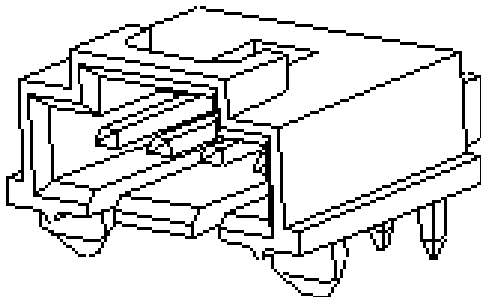


image - Reference only

Series

**EU RoHS**

**ELV and RoHS  
Compliant**

**REACH SVHC**

Not Reviewed

**Halogen-Free**

**Status**

**Not Halogen-Free**

**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.

**China RoHS**



**Search Parts in this Series**

[70555Series](#)

**Mates With**

[70066n](#) , [70066g](#) , [70430g](#) , [70400g](#) Housing

**Electrical**

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

**Solder Process Data**

|                                                |                        |
|------------------------------------------------|------------------------|
| Duration at Max. Process Temperature (seconds) | 3                      |
| Lead-free Process Capability                   | Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature        | 1                      |
| Process Temperature max. C                     | 245                    |

**Material Info**

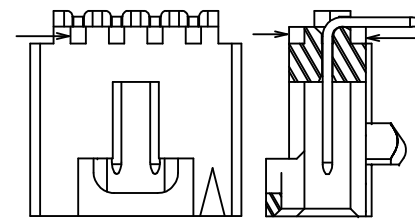
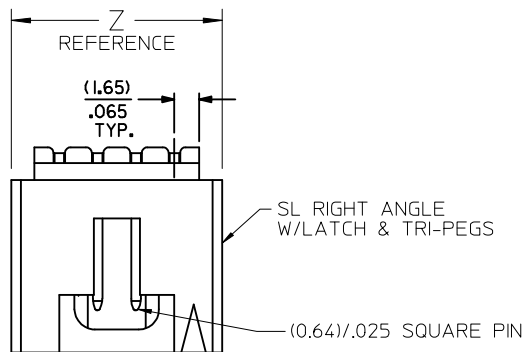
|                 |              |
|-----------------|--------------|
| Old Part Number | A-70555-0009 |
|-----------------|--------------|

**Reference - Drawing Numbers**

|                         |                    |
|-------------------------|--------------------|
| Packaging Specification | PK-70873-0015      |
| Product Specification   | PS-70400, PS-70541 |
| Sales Drawing           | SDA-70555-****     |

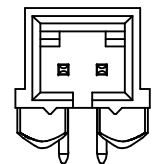
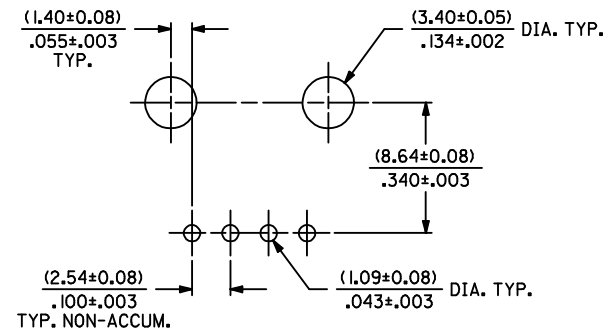
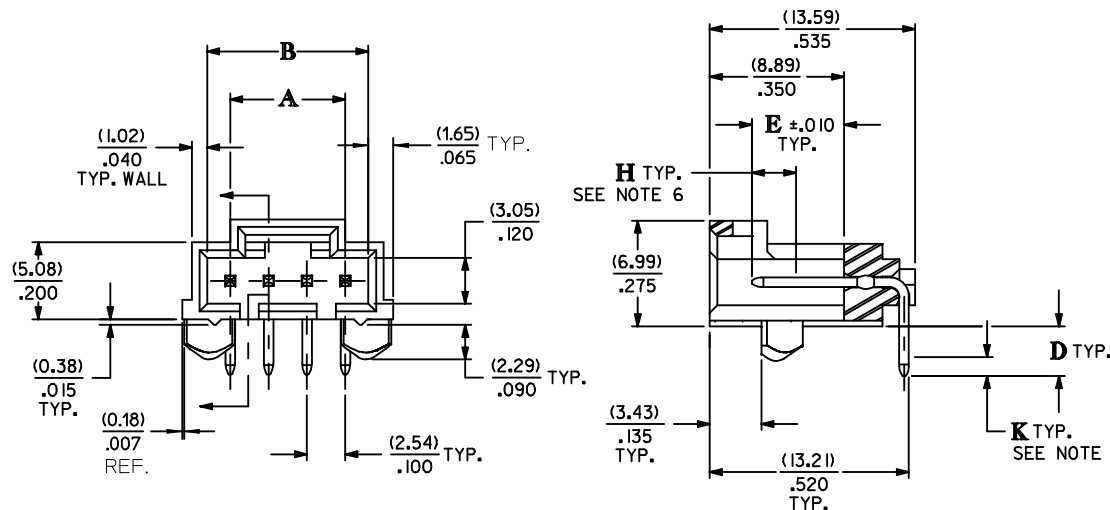
This document was generated on 05/28/2010

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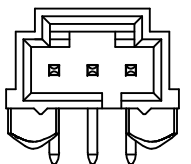


### ALTERNATIVE CORING MANUFACTURER'S OPTION

| CKT.<br>SIZE | DIM. "A" |       | DIM. "B" |       | DIM. "Z" |       |
|--------------|----------|-------|----------|-------|----------|-------|
|              | MM       | IN.   | MM       | IN.   | MM       | IN.   |
| 2            | 2.54     | .100  | 5.33     | .210  | 8.64     | .340  |
| 3            | 5.08     | .200  | 8.13     | .320  | 11.43    | .450  |
| 4            | 7.62     | .300  | 10.67    | .420  | 13.97    | .550  |
| 5            | 10.16    | .400  | 13.21    | .520  | 16.51    | .650  |
| 6            | 12.70    | .500  | 15.75    | .620  | 19.05    | .750  |
| 7            | 15.24    | .600  | 18.29    | .720  | 21.59    | .850  |
| 8            | 17.78    | .700  | 20.83    | .820  | 24.13    | .950  |
| 9            | 20.32    | .800  | 23.37    | .920  | 26.67    | 1.050 |
| 10           | 22.86    | .900  | 25.91    | 1.020 | 29.21    | 1.150 |
| 11           | 25.40    | 1.000 | 28.45    | 1.120 | 31.75    | 1.250 |
| 12           | 27.94    | 1.100 | 30.99    | 1.220 | 34.29    | 1.350 |
| 13           | 30.48    | 1.200 | 33.53    | 1.320 | 36.83    | 1.450 |
| 14           | 33.02    | 1.300 | 36.07    | 1.420 | 39.37    | 1.550 |
| 15           | 35.56    | 1.400 | 38.61    | 1.520 | 41.91    | 1.650 |
| 16           | 38.10    | 1.500 | 41.15    | 1.620 | 44.45    | 1.750 |
| 17           | 40.64    | 1.600 | 43.69    | 1.720 | 46.99    | 1.850 |
| 18           | 43.18    | 1.700 | 46.23    | 1.820 | 49.53    | 1.950 |
| 19           | 45.72    | 1.800 | 48.77    | 1.920 | 52.07    | 2.050 |
| 20           | 48.26    | 1.900 | 51.31    | 2.020 | 54.61    | 2.150 |
| 21           | 50.80    | 2.000 | 53.85    | 2.120 | 57.15    | 2.250 |
| 22           | 53.34    | 2.100 | 56.39    | 2.220 | 59.69    | 2.350 |
| 23           | 55.88    | 2.200 | 58.93    | 2.320 | 62.23    | 2.450 |
| 24           | 58.42    | 2.300 | 61.47    | 2.420 | 64.77    | 2.550 |
| 25           | 60.96    | 2.400 | 64.01    | 2.520 | 67.31    | 2.750 |



### 2 CIRCUIT



### 3 CIRCUIT

- NOTES:
- HEADER MATERIAL: GLASSS FILLED POLYESTER;  
UL 94V-0, COLOR: BLACK
  - PIN MATERIAL: PHOSPHOR BRONZE
  - HEADER TO BE USED WITH OPTION 'G' 70400 AND 70430  
SERIES SL CONNECTORS
  - REFER TO MOLEX PRODUCT SPECIFICATION PS-70541
  - STANDARD PACKAGING PER PK-70873-0015
  - DIMENSIONS WITHOUT TOLERANCE ARE SHOWN FOR  
REFERENCE ONLY
  - MEASURE POINT FOR PLATING THICKNESS

PLATING:

TIN - 3.81 MICROMETERS/150 MICROINCHES MINIMUM TIN PLATE  
OVER NICKEL UNDERPLATE OVERALL

15 GOLD - 0.38 MICROMETERS/15 MICROINCHES MINIMUM GOLD PLATE IN MATE AREA  
1.91 MICROMETERS/75 MICROINCHES MINIMUM TIN PLATE IN PC TAIL AREA  
OVER NICKEL UNDERPLATE OVERALL

30 GOLD - 0.76 MICROMETERS/30 MICROINCHES MINIMUM GOLD PLATE IN MATE AREA  
1.91 MICROMETERS/75 MICROINCHES MINIMUM TIN PLATE IN PC TAIL AREA  
OVER NICKEL UNDERPLATE OVERALL

|                                                                                                                             |     |             |                 |                                       |                                                            |                          |                                                                                                                                  |                    |                                                                             |                                                                                                              |                                |
|-----------------------------------------------------------------------------------------------------------------------------|-----|-------------|-----------------|---------------------------------------|------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------|
| ADD DIMENSION "Z"<br>EC NO: UCP2010-1081<br>DRWN:MS BARRA 2009/10/27<br>CHKD:J.MORGAN 2009/11/09<br>APPR:SMILLER 2009/11/09 | REV | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) |                                                            | DIMENSION STYLE<br>MM/IN |                                                                                                                                  | SCALE<br>4:1       | DESIGN UNITS<br>INCH                                                        |  THIRD ANGLE PROJECTION |                                |
|                                                                                                                             |     |             |                 |                                       | mm                                                         | INCH                     | DRAWN BY<br>AAB                                                                                                                  | DATE<br>1993/05/13 | TITLE<br>SL RIGHT ANGLE HEADER<br>W/LATCH & TRI-PEGS<br>(2.54)/.100 CENTERS |                                                                                                              |                                |
|                                                                                                                             |     |             |                 | 4 PLACES                              | ± .005                                                     | ± .005                   | CHECKED BY<br>AAB                                                                                                                | DATE<br>1993/05/13 | MOLEX INCORPORATED                                                          |                                                                                                              |                                |
|                                                                                                                             |     |             |                 | 3 PLACES                              | ± .01                                                      | ± .01                    | APPROVED BY<br>WAZ                                                                                                               | DATE<br>1993/05/13 |                                                                             |                                                                                                              |                                |
|                                                                                                                             |     |             |                 | 2 PLACES                              | ± 0.13                                                     | ± .01                    | MATERIAL NO.<br>SEE TABLE                                                                                                        |                    |                                                                             |                                                                                                              | DOCUMENT NO.<br>SDA-70555-**** |
|                                                                                                                             |     | 1 PLACE     | ± 0.25          | ± .01                                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                          | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                                             |                                                                                                              |                                |

|    |                                                                                   |                                  |  |                                  |  |                         |  |                         |  |                         |                |                           |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|----|-----------------------------------------------------------------------------------|----------------------------------|--|----------------------------------|--|-------------------------|--|-------------------------|--|-------------------------|----------------|---------------------------|-----------------------|----------------|--|------------------------|----------------|---|-----------------------------|---|--|---|--|---|--|
| 13 |                                                                                   | 12                               |  | 11                               |  | 10                      |  | 9                       |  | 8                       |                | 7                         |                       | 6              |  | 5                      |                | 4 |                             | 3 |  | 2 |  | 1 |  |
| J  | CIRCUIT<br>SIZE                                                                   | ENGINEERING<br>NUMBER<br>A-70555 |  | MANUFACTURE<br>RELEASE<br>STATUS |  |                         |  |                         |  | D<br>REF.               | E<br>± .010    | PLATE<br>PER<br>ES-<br>88 | CONNECTOR END PLATING |                |  | P.C. BOARD END PLATING |                |   | VOIDED<br>CIRCUIT<br>NUMBER |   |  |   |  |   |  |
|    |                                                                                   |                                  |  |                                  |  |                         |  |                         |  |                         |                |                           | TYPE                  | H<br>MEAS.     |  | TYPE                   | K<br>MEAS.     |   |                             |   |  |   |  |   |  |
| I  | 2-10                                                                              | -0001-0009                       |  | R.F.M.                           |  |                         |  |                         |  | (3.30)<br>.130          | (6.10)<br>.240 |                           | TIN                   | (2.54)<br>.100 |  | TIN                    | (1.27)<br>.050 |   |                             |   |  |   |  |   |  |
|    | 11-25                                                                             | -0010-0024                       |  | R.F.M.                           |  |                         |  |                         |  |                         |                |                           |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 2-10                                                                              | -0036-0044                       |  | R.F.M.                           |  |                         |  |                         |  | (3.30)<br>.130          | (6.10)<br>.240 |                           | 15 GOLD               | (2.54)<br>.100 |  | TIN                    | (1.27)<br>.050 |   |                             |   |  |   |  |   |  |
|    | 11-25                                                                             | -0045-0059                       |  | R.F.M.                           |  |                         |  |                         |  |                         |                |                           |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
| H  | 2-10                                                                              | -0071-0079                       |  | R.F.M.                           |  |                         |  |                         |  | (3.30)<br>.130          | (6.10)<br>.240 |                           | 30 GOLD               | (2.54)<br>.100 |  | TIN                    | (1.27)<br>.050 |   |                             |   |  |   |  |   |  |
|    | 11-25                                                                             | -0080-0094                       |  | R.F.M.                           |  |                         |  |                         |  |                         |                |                           |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 2-10                                                                              | -0106-0114                       |  | R.F.M.                           |  |                         |  |                         |  | (2.67)<br>.105          | (6.10)<br>.240 |                           | 15 GOLD               | (2.54)<br>.100 |  | TIN                    | (1.27)<br>.050 |   |                             |   |  |   |  |   |  |
|    | 11-25                                                                             | -0115-0129                       |  | R.F.M.                           |  |                         |  |                         |  |                         |                |                           |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
| G  | 2-10                                                                              | -5001-5009                       |  | R.F.M.                           |  |                         |  |                         |  | (3.30)<br>.130          | (6.10)<br>.240 |                           | TIN                   | (2.54)<br>.100 |  | TIN                    | (1.27)<br>.050 |   |                             | 2 |  |   |  |   |  |
|    | 11-25                                                                             | -5010-5024                       |  | R.F.M.                           |  |                         |  |                         |  |                         |                |                           |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
| F  | CIRCUIT<br>SIZE                                                                   | ASSEMBLY<br>ITEM NUMBER          |  | ASSEMBLY<br>ITEM NUMBER          |  | ASSEMBLY<br>ITEM NUMBER |  | ASSEMBLY<br>ITEM NUMBER |  | ASSEMBLY<br>ITEM NUMBER |                | ASSEMBLY<br>ITEM NUMBER   |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 2                                                                                 | 70555-0001                       |  | 70555-0036                       |  | 70555-0071              |  |                         |  |                         |                | 70555-5001                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 3                                                                                 | 70555-0002                       |  | 70555-0037                       |  | 70555-0072              |  |                         |  |                         |                | 70555-5002                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 4                                                                                 | 70555-0003                       |  | 70555-0038                       |  | 70555-0073              |  | 70555-0108              |  |                         |                | 70555-5003                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 5                                                                                 | 70555-0004                       |  | 70555-0039                       |  | 70555-0074              |  | 70555-0109              |  |                         |                | 70555-5004                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 6                                                                                 | 70555-0005                       |  | 70555-0040                       |  | 70555-0075              |  |                         |  |                         |                | 70555-5005                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 7                                                                                 | 70555-0006                       |  | 70555-0041                       |  | 70555-0076              |  |                         |  |                         |                | 70555-5006                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 8                                                                                 | 70555-0007                       |  | 70555-0042                       |  | 70555-0077              |  |                         |  |                         |                | 70555-5007                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
| E  | 9                                                                                 | 70555-0008                       |  | 70555-0043                       |  | 70555-0078              |  |                         |  |                         |                | 70555-5008                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 10                                                                                | 70555-0009                       |  | 70555-0044                       |  | 70555-0079              |  |                         |  |                         |                | 70555-5009                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 11                                                                                | 70555-0010                       |  | 70555-0045                       |  | 70555-0080              |  |                         |  |                         |                | 70555-5010                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 12                                                                                | 70555-0011                       |  | 70555-0046                       |  | 70555-0081              |  |                         |  |                         |                | 70555-5011                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
| D  | 13                                                                                | 70555-0012                       |  | 70555-0047                       |  | 70555-0082              |  |                         |  |                         |                | 70555-5012                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 14                                                                                | 70555-0013                       |  | 70555-0048                       |  | 70555-0083              |  |                         |  |                         |                | 70555-5013                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 15                                                                                | 70555-0014                       |  | 70555-0049                       |  | 70555-0084              |  |                         |  |                         |                | 70555-5014                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 16                                                                                | 70555-0015                       |  | 70555-0050                       |  | 70555-0085              |  |                         |  |                         |                | 70555-5015                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 17                                                                                | 70555-0016                       |  | 70555-0051                       |  | 70555-0086              |  |                         |  |                         |                | 70555-5016                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 18                                                                                | 70555-0017                       |  | 70555-0052                       |  | 70555-0087              |  |                         |  |                         |                | 70555-5017                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 19                                                                                | 70555-0018                       |  | 70555-0053                       |  | 70555-0088              |  |                         |  |                         |                | 70555-5018                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 20                                                                                | 70555-0019                       |  | 70555-0054                       |  | 70555-0089              |  |                         |  |                         |                | 70555-5019                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
| C  | 21                                                                                | 70555-0020                       |  | 70555-0055                       |  | 70555-0090              |  |                         |  |                         |                | 70555-5020                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 22                                                                                | 70555-0021                       |  | 70555-0056                       |  | 70555-0091              |  |                         |  |                         |                | 70555-5021                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 23                                                                                | 70555-0022                       |  | 70555-0057                       |  | 70555-0092              |  |                         |  |                         |                | 70555-5022                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 24                                                                                | 70555-0023                       |  | 70555-0058                       |  | 70555-0093              |  |                         |  |                         |                | 70555-5023                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    | 25                                                                                | 70555-0024                       |  | 70555-0059                       |  | 70555-0094              |  |                         |  |                         |                | 70555-5024                |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
| B  | *X* IN COLUMN UNDER "ASSEMBLY ITEM NUMBER " HEADING DENOTES TOOLING NOT AVAILABLE |                                  |  |                                  |  |                         |  |                         |  |                         |                |                           |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    |                                                                                   |                                  |  |                                  |  |                         |  |                         |  |                         |                |                           |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
| A  |                                                                                   |                                  |  |                                  |  |                         |  |                         |  |                         |                |                           |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |
|    |                                                                                   |                                  |  |                                  |  |                         |  |                         |  |                         |                |                           |                       |                |  |                        |                |   |                             |   |  |   |  |   |  |

SEE SHEET 1

EC NO: UCP2010-1081

DRWN:MSIBARRA 2009/10/27

CHKD:DMORGAN 2009/11/09

APPR:SMILLER 2009/11/09

DESCRIPTION

REV

QUALITY  
SYMBOLS

GENERAL TOLERANCES  
(UNLESS SPECIFIED)

mm

INCH

4 PLACES ± --- ± ---

3 PLACES ± --- ± .005

2 PLACES ± 0.13 ± .01

1 PLACE ± 0.25 ± ---

ANGULAR ± 1/2°

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

DIMENSION STYLE

MM/IN

DRAWN BY

DATE

CHECKED BY

DATE

APPROVED BY

DATE

MATERIAL NO.

DOCUMENT NO.

SIZE

C

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

SCALE

4:1

DESIGN UNITS

INCH

THIRD ANGLE  
PROJECTION

SL RIGHT ANGLE HEADER  
W/LATCH & TRI-PEGS  
(2.54)/.100 CENTERS

MOLEX

MOLEX INCORPORATED

SDA-70555-\*\*\*\*

2 OF 2