

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0705530041

Status:

Active

Overview:

cgrid\_sl\_products

Description:

2.54mm (.100") Pitch SL™ Header, Low Profile, Single Row, Right Angle, .120" Pocket, Shrouded, 7 Circuits, Tin (Sn) Plating

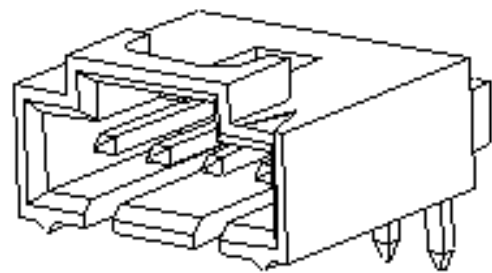


image - Reference only

Series

Documents:

- [3D Model](#)
- [Drawing \(PDF\)](#)
- [Packaging Specification \(PDF\)](#)
- [Product Specification PS-70400 \(PDF\)](#)
- [Product Specification PS-70541 \(PDF\)](#)
- [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

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

General

|                |                   |
|----------------|-------------------|
| Product Family | PCB Headers       |
| Series         | 70553             |
| Application    | Wire-to-Board     |
| Overview       | cgrid_sl_products |
| Product Name   | SL™               |

Physical

|                                |                                |
|--------------------------------|--------------------------------|
| Breakaway                      | No                             |
| Circuits (Loaded)              | 7                              |
| Circuits (maximum)             | 7                              |
| 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                    | No                             |
| PCB Retention                  | None                           |
| 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                   |

EU RoHS

ELV and RoHS  
Compliant

REACH SVHC

Not Reviewed

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

70553Series

Mates With

70066n , 70066g , 70430g , 70400g Housing

**Electrical**

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

**Solder Process Data**

|                              |                        |
|------------------------------|------------------------|
| Lead-free Process Capability | Wave Capable (TH only) |
|------------------------------|------------------------|

**Material Info**

**Reference - Drawing Numbers**

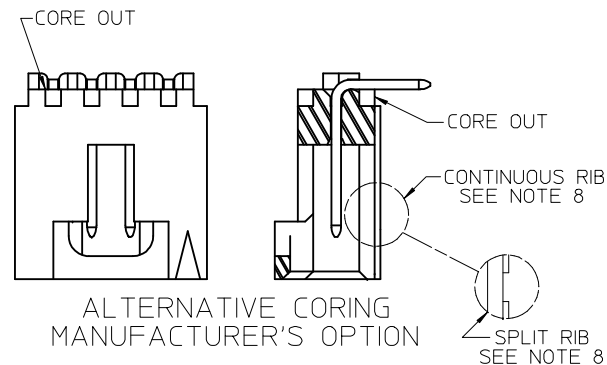
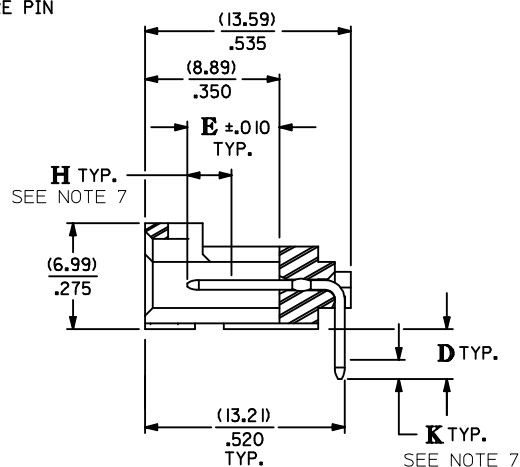
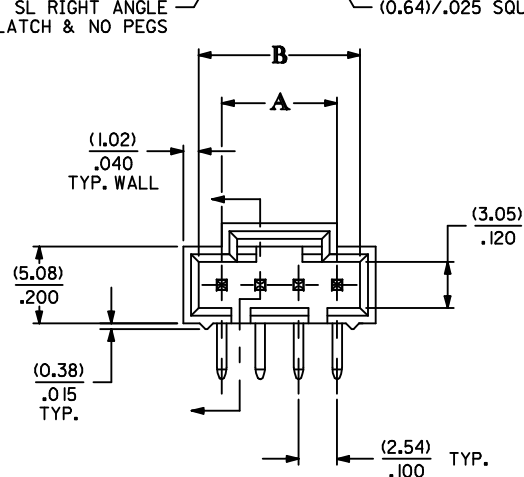
|                         |                    |
|-------------------------|--------------------|
| Packaging Specification | PK-70873-0015      |
| Product Specification   | PS-70400, PS-70541 |
| Sales Drawing           | SDA-70553-****     |

This document was generated on 05/27/2010

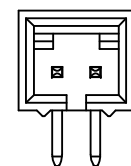
**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**

SL RIGHT ANGLE  
W/LATCH & NO PEGS

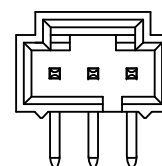
(0.64)/.025 SQUARE PIN



| CKT.<br>SIZE | DIM. "A" |       | DIM. "B" |       |
|--------------|----------|-------|----------|-------|
|              | MM       | IN.   | MM       | IN.   |
| 2            | 2.54     | .100  | 5.33     | .210  |
| 3            | 5.08     | .200  | 8.13     | .320  |
| 4            | 7.62     | .300  | 10.67    | .420  |
| 5            | 10.16    | .400  | 13.21    | .520  |
| 6            | 12.70    | .500  | 15.75    | .620  |
| 7            | 15.24    | .600  | 18.29    | .720  |
| 8            | 17.78    | .700  | 20.83    | .820  |
| 9            | 20.32    | .800  | 23.37    | .920  |
| 10           | 22.86    | .900  | 25.91    | 1.020 |
| 11           | 25.40    | 1.000 | 28.45    | 1.120 |
| 12           | 27.94    | 1.100 | 30.99    | 1.220 |
| 13           | 30.48    | 1.200 | 33.53    | 1.320 |
| 14           | 33.02    | 1.300 | 36.07    | 1.420 |
| 15           | 35.56    | 1.400 | 38.61    | 1.520 |
| 16           | 38.10    | 1.500 | 41.15    | 1.620 |
| 17           | 40.64    | 1.600 | 43.69    | 1.720 |
| 18           | 43.18    | 1.700 | 46.23    | 1.820 |
| 19           | 45.72    | 1.800 | 48.77    | 1.920 |
| 20           | 48.26    | 1.900 | 51.31    | 2.020 |
| 21           | 50.80    | 2.000 | 53.85    | 2.120 |
| 22           | 53.34    | 2.100 | 56.39    | 2.220 |
| 23           | 55.88    | 2.200 | 58.93    | 2.320 |
| 24           | 58.42    | 2.300 | 61.47    | 2.420 |
| 25           | 60.96    | 2.400 | 64.01    | 2.520 |



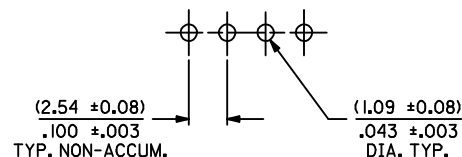
2 CIRCUIT



3 CIRCUIT

NOTES:

- HEADER MATERIAL: GLASS FILLED POLYESTER;  
UL 94V-0, COLOR: BLACK  
PIN MATERIAL: PHOSPHOR BRONZE
- FINISH:  
TIN: 3.81 MICROMETERS/150 MICROINCHES MINIMUM TIN PLATE OVERALL  
OVER NICKEL UNDERPLATE OVERALL  
15 GOLD: 0.38 MICROMETERS/15 MICROINCHES MINIMUM GOLD PLATE IN CONTACT AREA  
1.91 MICROMETERS/75 MICROINCHES MINIMUM TIN PLATE IN TAIL AREA  
OVER NICKEL UNDERPLATE OVERALL  
30 GOLD: 0.76 MICROMETERS/30 MICROINCHES MINIMUM GOLD PLATE IN CONTACT AREA  
1.91 MICROMETERS/75 MICROINCHES MINIMUM TIN PLATE IN TAIL AREA  
OVER NICKEL UNDERPLATE OVERALL
- HEADER TO BE USED WITH OPTION "G" 70400 AND 70430  
SERIES SL CONNECTORS
- REFER TO MOLEX PRODUCT SPECIFICATION PS-70541 & PS-70400
- STANDARD PACKAGING IN TUBES PER PK-70873-0015 OR  
OPTIONAL PACKAGING IN BAGS PER PK-70873-0535.  
OPTION PACK NOT AVAILABLE FOR ALL CKT SIZES.
- DIMENSIONS WITHOUT TOLERANCE ARE SHOWN FOR REFERENCE ONLY.
- MEASURE POINT FOR PLATING THICKNESS
- ALTERNATIVE RIB, MAY BE SPLIT OR CONTINUOUS. EITHER OPTION DOES NOT IMPACT  
FUNCTION OF THE ASSEMBLY.



RECOMMENDED PC BOARD LAYOUT  
(FOR USE WITH (1.57)/.062 THICK BOARD)

|                                                                                                                        |     |                                                            |                 |                                       |                                                                                                                                  |                 |                    |            |                                                                  |                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------|-----------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------|------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| ADD RIB NOTE 8<br>EC NO: UCP2010-0787<br>DRAWN:SBARRA 2009/09/24<br>CHKD:DMORGAN 2009/10/02<br>APPR:SMILLER 2009/10/05 | REV | DESCRIPTION                                                | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) |                                                                                                                                  | DIMENSION STYLE |                    | SCALE      | DESIGN UNITS                                                     |  THIRD ANGLE PROJECTION |
|                                                                                                                        |     |                                                            |                 |                                       |                                                                                                                                  | MM/IN           |                    | 4:1        | INCH                                                             |                                                                                                              |
|                                                                                                                        |     |                                                            |                 |                                       | mm                                                                                                                               | INCH            | DRAWN BY           | DATE       | TITLE                                                            |                                                                                                              |
|                                                                                                                        |     |                                                            |                 | 4 PLACES                              | ± ---                                                                                                                            | ± ---           | AAB                | 1993/05/13 | SALES ASSY, SL RIGHT<br>ANGLE HDR W/LATCH<br>(2.54)/.100 CENTERS |                                                                                                              |
|                                                                                                                        |     |                                                            |                 | 3 PLACES                              | ± ---                                                                                                                            | ± .005          | CHECKED BY         | DATE       |                                                                  |                                                                                                              |
|                                                                                                                        |     | 2 PLACES                                                   | ± 0.13          | ± .010                                | AAB                                                                                                                              | 1993/05/13      | MOLEX INCORPORATED |            |                                                                  |                                                                                                              |
|                                                                                                                        |     | 1 PLACE                                                    | ± 0.25          | ± ---                                 | APPROVED BY                                                                                                                      | DATE            |                    |            |                                                                  |                                                                                                              |
|                                                                                                                        |     | ANGULAR ±1/2°                                              |                 | WAZ                                   | 1993/05/13                                                                                                                       |                 |                    |            |                                                                  |                                                                                                              |
|                                                                                                                        |     | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                 |                                       |                                                                                                                                  | MATERIAL NO.    | DOCUMENT NO.       | SHEET NO.  |                                                                  |                                                                                                              |
|                                                                                                                        |     |                                                            |                 |                                       |                                                                                                                                  | SEE TABLE       | SDA-70553-****     | 1 OF 3     |                                                                  |                                                                                                              |
|                                                                                                                        |     |                                                            |                 |                                       | 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-70553 | MANUFACTURE<br>RELEASE<br>STATUS |                         |            |                         | D<br>REF.      | E<br>± .010             | PLATING TYPE | CONNECTOR END PLATING   |                |                         | P.C. BOARD END PLATING |                |                  | SEE PACK<br>INFORMA.<br>DRAWING<br>PK-70873 |
|                                                                                   |                 |                                  |                                  |                         |            |                         |                |                         |              | TYPE                    | H<br>MEAS.     |                         | TYPE                   | K<br>MEAS.     |                  |                                             |
|                                                                                   | 2-10            | -0001-0009                       | R.F.M.                           |                         |            |                         | (3.30)<br>.130 | (6.10)<br>.240          | 15 GOLD      | GOLD                    | (2.54)<br>.100 |                         | TIN                    | (1.27)<br>.050 | -0015<br>(TUBES) |                                             |
| I                                                                                 | 11-25           | -0010-0024                       | R.F.M.                           |                         |            |                         |                |                         |              |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 2-10            | -0036-0044                       | R.F.M.                           |                         |            |                         | (3.30)<br>.130 | (6.10)<br>.240          | TIN          | TIN                     | (2.54)<br>.100 |                         | TIN                    | (1.27)<br>.050 | -0015<br>(TUBES) |                                             |
| H                                                                                 | 11-25           | -0045-0059                       | R.F.M.                           |                         |            |                         |                |                         |              |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 2-10            | -0106-0114                       | R.F.M.                           |                         |            |                         | (3.30)<br>.130 | (6.10)<br>.240          | 30 GOLD      | GOLD                    | (2.54)<br>.100 |                         | TIN                    | (1.27)<br>.050 | -0015<br>(TUBES) |                                             |
| G                                                                                 | 11-25           | -0115-0129                       | R.F.M.                           |                         |            |                         |                |                         |              |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 2-10            | -0141-0149                       | R.F.M.                           |                         |            |                         | (2.67)<br>.105 | (6.10)<br>.240          | 15 GOLD      | GOLD                    | (2.54)<br>.100 |                         | TIN                    | (1.27)<br>.050 | -0015<br>(TUBES) |                                             |
| F                                                                                 | 11-25           | -0150-0TIN                       | R.F.M.                           |                         |            |                         |                |                         |              |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 2-10            |                                  |                                  |                         |            |                         |                |                         |              |                         |                |                         |                        |                |                  |                                             |
| E                                                                                 | 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               |                                  | 70553-0001                       |                         | 70553-0036 |                         | 70553-0106     |                         | 70553-0141   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 3               |                                  | 70553-0002                       |                         | 70553-0037 |                         | 70553-0107     |                         | 70553-0142   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 4               |                                  | 70553-0003                       |                         | 70553-0038 |                         | 70553-0108     |                         | 70553-0143   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 5               |                                  | 70553-0004                       |                         | 70553-0039 |                         | 70553-0109     |                         | 70553-0144   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 6               |                                  | 70553-0005                       |                         | 70553-0040 |                         | 70553-0110     |                         | 70553-0145   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 7               |                                  | 70553-0006                       |                         | 70553-0041 |                         | 70553-0111     |                         | 70553-0146   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 8               |                                  | 70553-0007                       |                         | 70553-0042 |                         | 70553-0112     |                         | 70553-0147   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 9               |                                  | 70553-0008                       |                         | 70553-0043 |                         | 70553-0113     |                         | 70553-0148   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 10              |                                  | 70553-0009                       |                         | 70553-0044 |                         | 70553-0114     |                         | 70553-0149   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 11              |                                  | 70553-0010                       |                         | 70553-0045 |                         | 70553-0115     |                         | 70553-0150   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 12              |                                  | 70553-0011                       |                         | 70553-0046 |                         | 70553-0116     |                         | 70553-0151   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 13              |                                  | 70553-0012                       |                         | 70553-0047 |                         | 70553-0117     |                         | 70553-0152   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 14              |                                  | 70553-0013                       |                         | 70553-0048 |                         | 70553-0118     |                         | 70553-0153   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 15              |                                  | 70553-0014                       |                         | 70553-0049 |                         | 70553-0119     |                         | 70553-0154   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 16              |                                  | 70553-0015                       |                         | 70553-0050 |                         | 70553-0120     |                         | 70553-0155   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 17              |                                  | 70553-0016                       |                         | 70553-0051 |                         | 70553-0121     |                         | 70553-0156   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 18              |                                  | 70553-0017                       |                         | 70553-0052 |                         | 70553-0122     |                         | 70553-0157   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 19              |                                  | 70553-0018                       |                         | 70553-0053 |                         | 70553-0123     |                         | 70553-0158   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 20              |                                  | 70553-0019                       |                         | 70553-0054 |                         | 70553-0124     |                         | 70553-0159   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 21              |                                  | 70553-0020                       |                         | 70553-0055 |                         | 70553-0125     |                         | 70553-0160   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 22              |                                  | 70553-0021                       |                         | 70553-0056 |                         | 70553-0126     |                         | 70553-0161   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 23              |                                  | 70553-0022                       |                         | 70553-0057 |                         | 70553-0127     |                         | 70553-0162   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 24              |                                  | 70553-0023                       |                         | 70553-0058 |                         | 70553-0128     |                         | 70553-0163   |                         |                |                         |                        |                |                  |                                             |
|                                                                                   | 25              |                                  | 70553-0024                       |                         | 70553-0059 |                         | 70553-0129     |                         | 70553-0164   |                         |                |                         |                        |                |                  |                                             |
| "X" IN COLUMN UNDER "ASSEMBLY ITEM NUMBER " HEADING DENOTES TOOLING NOT AVAILABLE |                 |                                  |                                  |                         |            |                         |                |                         |              |                         |                |                         |                        |                |                  |                                             |
| B                                                                                 |                 |                                  |                                  |                         |            |                         |                |                         |              |                         |                |                         |                        |                |                  |                                             |
|                                                                                   |                 |                                  |                                  |                         |            |                         |                |                         |              |                         |                |                         |                        |                |                  |                                             |
| A                                                                                 |                 |                                  |                                  |                         |            |                         |                |                         |              |                         |                |                         |                        |                |                  |                                             |
|                                                                                   |                 |                                  |                                  |                         |            |                         |                |                         |              |                         |                |                         |                        |                |                  |                                             |
| fb_frame_C_P_AM_T<br>Rev. F 2009/06/18                                            |                 |                                  |                                  |                         |            |                         |                |                         |              |                         |                |                         |                        |                |                  |                                             |
|                                                                                   |                 | 12                               | 11                               | 10                      | 9          | 8                       | 7              | 6                       | 5            | 4                       | 3              | 2                       | 1                      |                |                  |                                             |

UPDATE REV LEVEL

EC NO: UCP2010-0787

DRWN:MSBARRA 2009/09/24

CHKD:MORGAN 2009/10/02

APPR:SMILLER 2009/10/05

REV

DESCRIPTION

QUALITY SYMBOLS

GENERAL TOLERANCES (UNLESS SPECIFIED)

mm

INCH

4 PLACES ± --- ± ---

3 PLACES ± --- ±.005

2 PLACES ±.013 ±.010

1 PLACE ±.025 ± ---

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.

SHEET NO.

SALES ASSY, SL RIGHT

ANGLE HDR W/LATCH

(2.54)/.100 CENTERS

MOLEX INCORPORATED

SDA-70553-\*\*\*\*

2 OF 3

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

[illegible]