

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0713491035

Status:

Active

Overview:

cgrid\_sl\_products

Description:

2.54mm (.100") Pitch C-Grid® Header, Surface Mount, Dual Row, Vertical, Shrouded, 6 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating, without Press-fit Plastic Pegs

Documents:

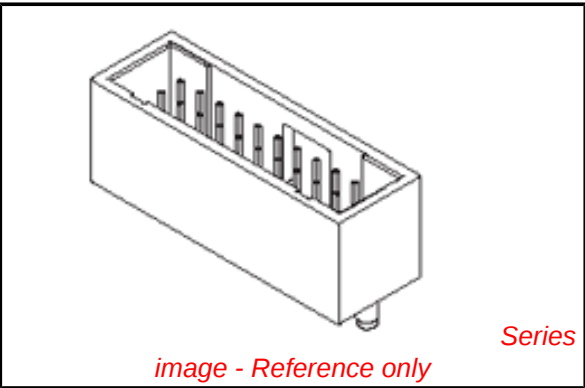
3D Model

Drawing (PDF)

Product Specification PS-71349-001 (PDF)

RoHS Certificate of Compliance (PDF)

|                                |                                |
|--------------------------------|--------------------------------|
| General                        |                                |
| Product Family                 | PCB Headers                    |
| Series                         | 71349                          |
| Application                    | Wire-to-Board                  |
| Overview                       | cgrid_sl_products              |
| Product Name                   | C-Grid®                        |
| Physical                       |                                |
| Breakaway                      | No                             |
| Circuits (Loaded)              | 6                              |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 50                             |
| 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, Phosphor Bronze         |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Rows                 | 2                              |
| Orientation                    | Vertical                       |
| PC Tail Length (in)            | 0.000 In                       |
| PC Tail Length (mm)            | 0.00 mm                        |
| PCB Locator                    | No                             |
| PCB Retention                  | None                           |
| PCB Thickness Recommended (in) | 0.000 In                       |
| PCB Thickness Recommended (mm) | 0.00 mm                        |
| Packaging Type                 | Tube                           |
| Pitch - Mating Interface (in)  | 0.100 In                       |
| Pitch - Mating Interface (mm)  | 2.54 mm                        |
| Plating min: Mating (µin)      | 15                             |
| Plating min: Mating (µm)       | 0.375                          |
| Plating min: Termination (µin) | 75                             |
| Plating min: Termination (µm)  | 1.875                          |
| Polarized to Mating Part       | No                             |
| Shrouded                       | Fully                          |
| Stackable                      | No                             |
| Temperature Range - Operating  | -40°C to +105°C                |
| Termination Interface: Style   | Surface Mount                  |
| Electrical                     |                                |
| Current - Maximum per Contact  | 3A                             |
| Voltage - Maximum              | 250V                           |



EU RoHS

ELV and RoHS Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)

For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

71349Series

Mates With

70013 Interim Clip, 70450a Crimp Housing, 71850 Through-hole Receptacle, 71395 SMT Receptacle

**Solder Process Data**

|                                                |                           |
|------------------------------------------------|---------------------------|
| Duration at Max. Process Temperature (seconds) | 30                        |
| Lead-free Process Capability                   | Reflow Capable (SMT only) |
| Max. Cycles at Max. Process Temperature        | 3                         |
| Process Temperature max. C                     | 245                       |

**Material Info**

**Reference - Drawing Numbers**

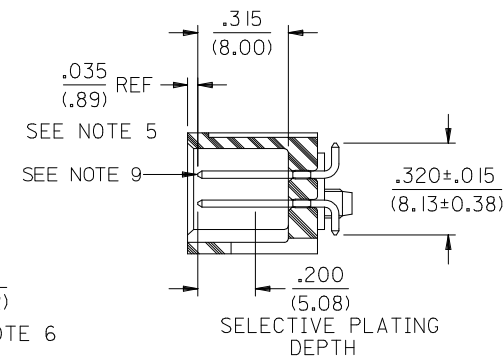
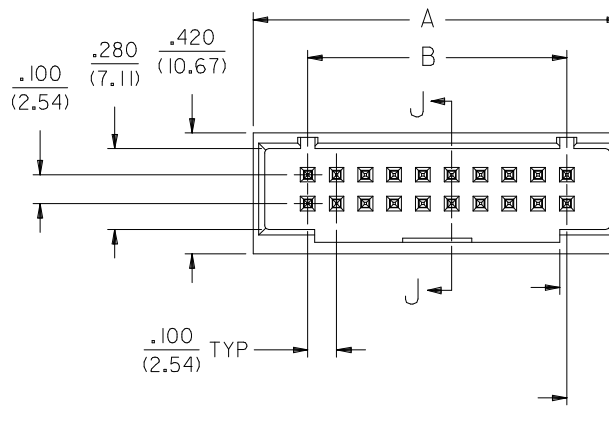
|                         |                |
|-------------------------|----------------|
| Packaging Specification | PK-70873-0018  |
| Product Specification   | PS-71349-001   |
| Sales Drawing           | SDA-71349-**** |

This document was generated on 05/31/2010

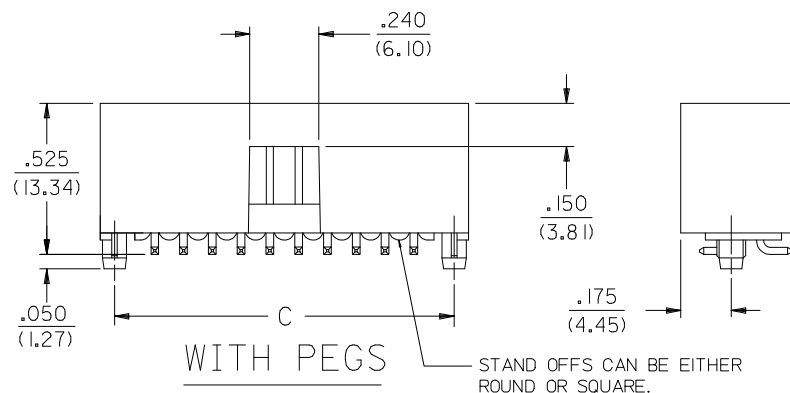
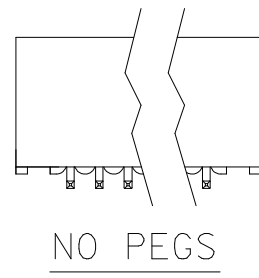
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# NOTES:

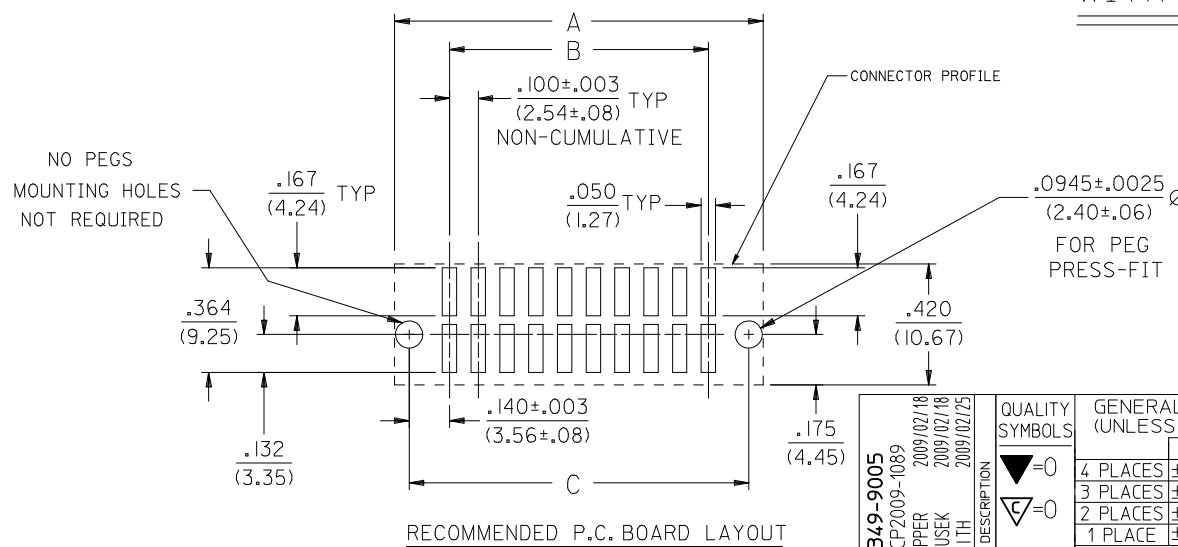
- 1- MATERIALS:  
SHROUDED WAFER: LCP, COLOR: BLACK, 94V-0  
PINS: COPPER ALLOY.
- 2- PLATING FINISHES FOR PINS:  
TIN: .000150 MINIMUM TIN OVER  
.000050 MINIMUM NICKEL.
- 15 GOLD: .000015 MINIMUM GOLD PLATE IN SELECTED AREA AND  
.000075 MINIMUM TIN IN SELECTED AREA  
OVER .000050 MINIMUM NICKEL OVER-ALL.
- 30 GOLD: .000030 MINIMUM GOLD PLATE IN SELECTED AREA AND  
.000075 MINIMUM TIN IN SELECTED AREA  
OVER .000050 MINIMUM NICKEL OVER-ALL.
- 3- PRODUCT CONFORMS TO PS-71349-001.
- 4- SEE SHEETS 3 AND 4 FOR PACKAGING DETAILS.
- 5- ROW TO ROW PIN HEIGHT VARIATION MUST NOT EXCEED  
.005/(0.13).
- 6- THIS SHOULDER IS .125/(3.18) FOR 6 CIRCUIT ONLY.  
.174/(4.42) FOR ALL OTHER CIRCUIT SIZES.
- 7- 20 CIRCUIT SIZE SHOWN FOR ILLUSTRATION PURPOSES.
- 8- PIN SMT TAILS MUST MEET SOLDERABILITY PER  
MIL-STD-202, METHOD 208B.
- 9- PIN PUSHOUT FORCE 4 LBS/(17.79N) MINIMUM  
IN THE DIRECTION INDICATED.
- 10- PRODUCT MATES TO 70013B (6 TO 50 CKTS).
- 11- PARTS CONFORM TO CLASS B REQUIREMENTS OF  
COSMETIC SPECIFICATION PS-45499-002



## SECTION J-J



NOTE FOR LEAD FREE CONVERSION:  
THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS  
DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC".  
CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH LEAD.



## RECOMMENDED P.C. BOARD LAYOUT

| REV | DESCRIPTION                                                                             | DATE                                   |
|-----|-----------------------------------------------------------------------------------------|----------------------------------------|
| J1  | ADD 71349-9005<br>EC NO: UCP2009-1089<br>DRAWN: KIPPER<br>CHKD: SSOUSEK<br>APPR: FSM/TH | 2009/02/18<br>2009/02/18<br>2009/02/18 |

| QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                      | DIMENSION STYLE                                                                                                                  | SCALE                          | DESIGN UNITS        | THIRD ANGLE PROJECTION |
|-----------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------|------------------------|
| ▽=0<br>▽=0      | mm INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± .005<br>2 PLACES ± .13 ± .01<br>1 PLACE ± 0.25 ± ---<br>ANGULAR ± 1/2° | IN/MM<br>DRAWN BY DATE<br>RB 10/26/1992<br>CHECKED BY DATE<br>DJB 10/26/1992<br>APPROVED BY DATE<br>DJB 10/26/1992               | 3:1                            | INCH                | THIRD ANGLE PROJECTION |
|                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                 | MATERIAL NO.<br>SEE TABLE                                                                                                        | DOCUMENT NO.<br>SDA-71349-**** | SHEET NO.<br>1 OF 4 |                        |
|                 |                                                                                                                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                |                     |                        |

|     |     |
|-----|-----|
| 4   | I2  |
| 3   | J1  |
| 2   | C   |
| 1   | J1  |
| SHT | REV |

|   | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 71349 | 4 | 3 | 2 | 1 |   |
|---|----|----|----|----|---|---|---|---|-------|---|---|---|---|---|
| J |    |    |    |    |   |   |   |   |       |   |   |   |   | J |
| I |    |    |    |    |   |   |   |   |       |   |   |   |   | I |
| H |    |    |    |    |   |   |   |   |       |   |   |   |   | H |
| G |    |    |    |    |   |   |   |   |       |   |   |   |   | G |
| F |    |    |    |    |   |   |   |   |       |   |   |   |   | F |
| E |    |    |    |    |   |   |   |   |       |   |   |   |   | E |
| D |    |    |    |    |   |   |   |   |       |   |   |   |   | D |
| C |    |    |    |    |   |   |   |   |       |   |   |   |   | C |
| B |    |    |    |    |   |   |   |   |       |   |   |   |   | B |
| A |    |    |    |    |   |   |   |   |       |   |   |   |   | A |

| NO. OF<br>CKTS | "A"           |            | "B"           |            | "C"           |            |
|----------------|---------------|------------|---------------|------------|---------------|------------|
|                | INCH<br>±.005 | MM<br>±.13 | INCH<br>±.003 | MM<br>±.08 | INCH<br>±.003 | MM<br>±.08 |
| 06             | .580          | 14.73      | .200          | 5.08       | .480          | 12.19      |
| 08             | .680          | 17.27      | .300          | 7.62       | .580          | 14.73      |
| 10             | .780          | 19.81      | .400          | 10.16      | .680          | 17.27      |
| 12             | .880          | 22.35      | .500          | 12.70      | .780          | 19.81      |
| 14             | .980          | 24.89      | .600          | 15.24      | .880          | 22.35      |
| 16             | 1.080         | 27.43      | .700          | 17.78      | .980          | 24.89      |
| 18             | 1.180         | 29.97      | .800          | 20.32      | 1.080         | 27.43      |
| 20             | 1.280         | 32.51      | .900          | 22.86      | 1.180         | 29.97      |
| 22             | 1.380         | 35.05      | 1.000         | 25.40      | 1.280         | 32.51      |
| 24             | 1.480         | 37.59      | 1.100         | 27.94      | 1.380         | 35.05      |
| 26             | 1.580         | 40.13      | 1.200         | 30.48      | 1.480         | 37.59      |
| 28             | 1.680         | 42.67      | 1.300         | 33.02      | 1.580         | 40.13      |
| 30             | 1.780         | 45.21      | 1.400         | 35.56      | 1.680         | 42.67      |
| 32             | 1.880         | 47.75      | 1.500         | 38.10      | 1.780         | 45.21      |
| 34             | 1.980         | 50.29      | 1.600         | 40.64      | 1.880         | 47.75      |
| 36             | 2.080         | 52.83      | 1.700         | 43.18      | 1.980         | 50.29      |
| 38             | 2.180         | 55.37      | 1.800         | 45.72      | 2.080         | 52.83      |
| 40             | 2.280         | 57.91      | 1.900         | 48.26      | 2.180         | 55.37      |
| 42             | 2.380         | 60.45      | 2.000         | 50.80      | 2.280         | 57.91      |
| 44             | 2.480         | 62.99      | 2.100         | 53.34      | 2.380         | 60.45      |
| 46             | 2.580         | 65.53      | 2.200         | 55.88      | 2.480         | 62.99      |
| 48             | 2.680         | 68.07      | 2.300         | 58.42      | 2.580         | 65.53      |
| 50             | 2.780         | 70.61      | 2.400         | 60.96      | 2.680         | 68.07      |
| 52             | 2.880         | 73.15      | 2.500         | 63.50      | 2.780         | 70.61      |
| 54             | 2.980         | 75.69      | 2.600         | 66.04      | 2.880         | 73.15      |
| 56             | 3.080         | 78.23      | 2.700         | 68.58      | 2.980         | 75.69      |
| 58             | 3.180         | 80.77      | 2.800         | 71.12      | 3.080         | 78.23      |
| 60             | 3.280         | 83.31      | 2.900         | 73.66      | 3.180         | 80.77      |
| 62             | 3.380         | 85.85      | 3.000         | 76.20      | 3.280         | 83.31      |
| 64             | 3.480         | 88.39      | 3.100         | 78.74      | 3.380         | 85.85      |
| 66             | 3.580         | 90.93      | 3.200         | 81.28      | 3.480         | 88.39      |
| 68             | 3.680         | 93.47      | 3.300         | 83.82      | 3.580         | 90.93      |
| 70             | 3.780         | 96.01      | 3.400         | 86.36      | 3.680         | 93.47      |
| 72             | 3.880         | 98.55      | 3.500         | 88.90      | 3.780         | 96.01      |

|   |             |
|---|-------------|
| C | SEE SHEET I |
| B | SEE SHEET I |
| A | SEE SHEET I |

|                                                                                                                                                                                               |   |                                                                                                                        |               |         |                           |    |         |   |    |      |         |  |    |      |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------|---------------|---------|---------------------------|----|---------|---|----|------|---------|--|----|------|--|--|--|--|
| DIMENSIONS SHOWN (METRIC) INCH                                                                                                                                                                |   |                                                                                                                        | ▽ = 0   ▴ = 0 |         | REVISE ONLY ON CAD SYSTEM |    |         |   |    |      |         |  |    |      |  |  |  |  |
| UNLESS OTHERWISE SPECIFIED<br>TOLERANCES: ANGULAR ± 1/2°                                                                                                                                      |   |                                                                                                                        | TITLE         |         |                           |    |         |   |    |      |         |  |    |      |  |  |  |  |
| <table><tr><td>3 PLACE</td><td>±</td><td>--</td><td>--</td></tr><tr><td>2 PLACE</td><td>±</td><td>--</td><td>± --</td></tr><tr><td>1 PLACE</td><td></td><td>--</td><td>± --</td></tr></table> |   |                                                                                                                        | 3 PLACE       | ±       | --                        | -- | 2 PLACE | ± | -- | ± -- | 1 PLACE |  | -- | ± -- |  |  |  |  |
| 3 PLACE                                                                                                                                                                                       | ± | --                                                                                                                     | --            |         |                           |    |         |   |    |      |         |  |    |      |  |  |  |  |
| 2 PLACE                                                                                                                                                                                       | ± | --                                                                                                                     | ± --          |         |                           |    |         |   |    |      |         |  |    |      |  |  |  |  |
| 1 PLACE                                                                                                                                                                                       |   | --                                                                                                                     | ± --          |         |                           |    |         |   |    |      |         |  |    |      |  |  |  |  |
| DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS                                                                                                                                       |   |                                                                                                                        |               |         |                           |    |         |   |    |      |         |  |    |      |  |  |  |  |
| DRWG. BY WGM                                                                                                                                                                                  |   | CHK'D. BY DJB                                                                                                          |               |         |                           |    |         |   |    |      |         |  |    |      |  |  |  |  |
| APP'D. BY DJB                                                                                                                                                                                 |   | SCALE N = A                                                                                                            |               |         |                           |    |         |   |    |      |         |  |    |      |  |  |  |  |
| FILE NAME S71349X2                                                                                                                                                                            |   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |               | DIV. DA | SIZE C                    |    |         |   |    |      |         |  |    |      |  |  |  |  |
| PART NO.                                                                                                                                                                                      |   | DRWG. NO.                                                                                                              |               |         |                           |    |         |   |    |      |         |  |    |      |  |  |  |  |
| SEE CHART                                                                                                                                                                                     |   | SDA-71349-****                                                                                                         |               |         |                           |    |         |   |    |      |         |  |    |      |  |  |  |  |
| SHEET NO. 2                                                                                                                                                                                   |   | DATE 6/10/96                                                                                                           |               |         |                           |    |         |   |    |      |         |  |    |      |  |  |  |  |
| MOLEX MOLEX INCORPORATED LISLE, ILL. 60532 U.S.A.                                                                                                                                             |   |                                                                                                                        |               |         |                           |    |         |   |    |      |         |  |    |      |  |  |  |  |

71349

|                                        |    |    |    |   |   |   |   |   |   |   |   |   |
|----------------------------------------|----|----|----|---|---|---|---|---|---|---|---|---|
| ib_frame_C_P_ME_T<br>Rev. D 2004/04/02 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|----------------------------------------|----|----|----|---|---|---|---|---|---|---|---|---|