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Part Number:

0901361305

Status:

Active

Overview:

C-Grid III™

Description:

2.54mm (.100") Pitch C-Grid III™ Header, Single Row, Vertical, Shrouded, 5 Circuits, 0.76μm (30μ") Gold (Au) Selective Plating

Documents:

3D Model

RoHS Certificate of Compliance (PDF)

Drawing (PDF)

General

Product Family

PCB Headers

Series

90136

Application

Wire-to-Board

Overview

C-Grid III™

Product Name

C-Grid III™

Physical

Breakaway

No

Circuits (Loaded)

5

Circuits (maximum)

5

Color - Resin

Black

First Mate / Last Break

No

Glow-Wire Compliant

No

Guide to Mating Part

No

Keying to Mating Part

None

Lock to Mating Part

Yes

Material - Metal

Brass

Material - Plating Mating

Gold

Material - Plating Termination

Tin

Material - Resin

Polyester

Number of Rows

1

Orientation

Vertical

PC Tail Length (in)

0.114 In

PC Tail Length (mm)

2.90 mm

PCB Locator

No

PCB Retention

None

PCB Thickness Recommended (in)

0.062 In

PCB Thickness Recommended (mm)

1.60 mm

Packaging Type

Tray

Pitch - Mating Interface (in)

0.100 In

Pitch - Mating Interface (mm)

2.54 mm

Plating min: Mating (μin)

30.48

Plating min: Mating (μm)

0.762

Plating min: Termination (μin)

120

Plating min: Termination (μm)

3

Polarized to PCB

No

Shrouded

Fully

Stackable

No

Temperature Range - Operating

-55°C to +125°C

Termination Interface: Style

Through Hole

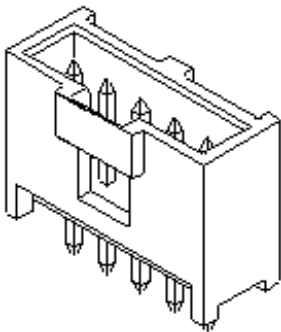
Electrical

Current - Maximum per Contact

3A

Voltage - Maximum

350V



Series  
image - Reference only

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

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  
90136Series

Mates With  
90123 C-Grid III™ Modular Crimp Housing.  
90156 C-Grid III™ Crimp Housing

**Solder Process Data**

Lead-free Process Capability

Wave Capable (TH only)

**Material Info**

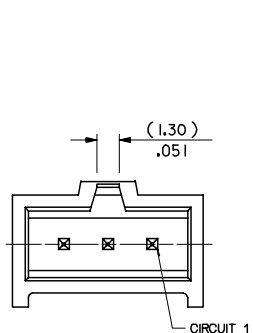
**Reference - Drawing Numbers**

Sales Drawing

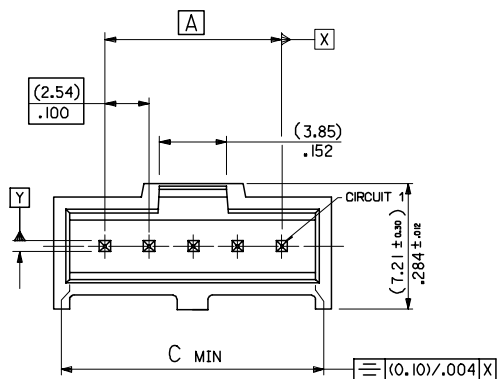
SDA-90136

This document was generated on 03/31/2010

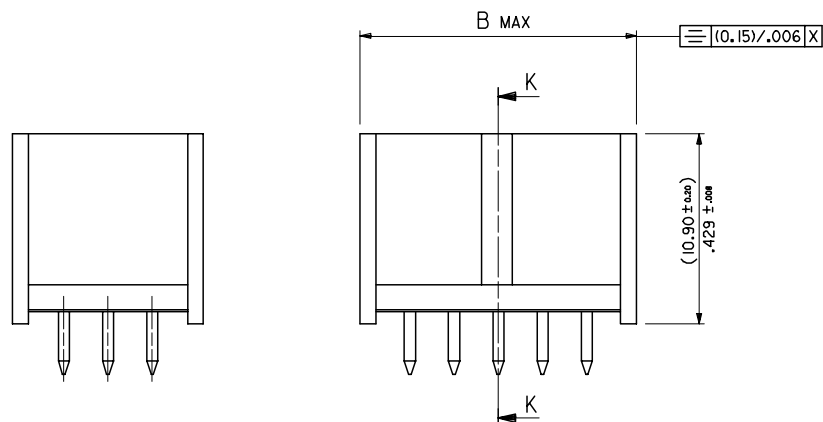
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1 TO 3 CIRCUITS



4 TO 32 CIRCUITS



NOTES

1. MATERIAL:-

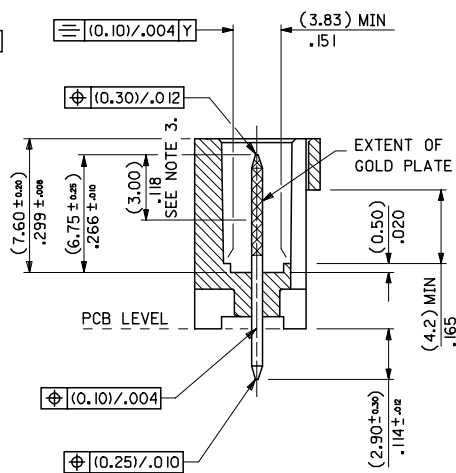
- PIN:- (0.635) / .025 SQ. BRASS WIRE.
- HOUSING:- 15% GLASS FILLED POLYESTER
- UL 94 V-0 COLOUR BLACK

2. FOR PLATING VERSIONS SEE SHEET 2.

3. MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS

4. PRODUCT SPEC: PS-99020-0001

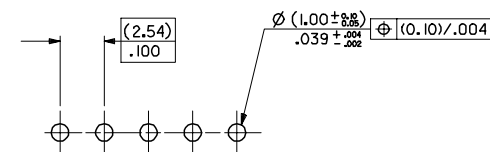
5. RECOMMENDED PCB THICKNESS 1.6mm



SECTION K-K

| No. OF CKTS | DIM A             | DIM B             | DIM C             |
|-------------|-------------------|-------------------|-------------------|
| 1           |                   | ( 5.89 ) / .232   | ( 4.06 ) / .160   |
| 2           | ( 2.54 ) / .100   | ( 8.43 ) / .332   | ( 6.60 ) / .260   |
| 3           | ( 5.08 ) / .200   | ( 10.97 ) / .432  | ( 9.14 ) / .360   |
| 4           | ( 7.62 ) / .300   | ( 13.51 ) / .532  | ( 11.68 ) / .460  |
| 5           | ( 10.16 ) / .400  | ( 16.05 ) / .632  | ( 14.22 ) / .560  |
| 6           | ( 12.70 ) / .500  | ( 18.59 ) / .732  | ( 16.76 ) / .660  |
| 7           | ( 15.24 ) / .600  | ( 21.13 ) / .832  | ( 19.30 ) / .760  |
| 8           | ( 17.78 ) / .700  | ( 23.67 ) / .932  | ( 21.84 ) / .860  |
| 9           | ( 20.32 ) / .800  | ( 26.21 ) / 1.032 | ( 24.38 ) / .960  |
| 10          | ( 22.86 ) / .900  | ( 28.75 ) / 1.132 | ( 26.92 ) / 1.060 |
| 11          | ( 25.40 ) / 1.000 | ( 31.29 ) / 1.232 | ( 29.46 ) / 1.160 |
| 12          | ( 27.94 ) / 1.100 | ( 33.83 ) / 1.332 | ( 32.00 ) / 1.260 |
| 13          | ( 30.48 ) / 1.200 | ( 36.37 ) / 1.432 | ( 34.54 ) / 1.360 |
| 14          | ( 33.02 ) / 1.300 | ( 38.91 ) / 1.532 | ( 37.08 ) / 1.460 |
| 15          | ( 35.56 ) / 1.400 | ( 41.45 ) / 1.632 | ( 39.62 ) / 1.560 |
| 16          | ( 38.10 ) / 1.500 | ( 43.99 ) / 1.732 | ( 42.16 ) / 1.660 |
| 17          | ( 40.64 ) / 1.600 | ( 46.53 ) / 1.832 | ( 44.70 ) / 1.760 |
| 18          | ( 43.18 ) / 1.700 | ( 49.07 ) / 1.932 | ( 47.24 ) / 1.860 |
| 19          | ( 45.72 ) / 1.800 | ( 51.61 ) / 2.032 | ( 49.78 ) / 1.960 |
| 20          | ( 48.26 ) / 1.900 | ( 54.15 ) / 2.132 | ( 52.32 ) / 2.060 |
| 21          | ( 50.80 ) / 2.000 | ( 56.69 ) / 2.232 | ( 54.86 ) / 2.160 |
| 22          | ( 53.34 ) / 2.100 | ( 59.23 ) / 2.332 | ( 57.40 ) / 2.260 |
| 23          | ( 55.88 ) / 2.200 | ( 61.77 ) / 2.432 | ( 59.94 ) / 2.360 |
| 24          | ( 58.42 ) / 2.300 | ( 64.31 ) / 2.532 | ( 62.48 ) / 2.460 |
| 25          | ( 60.96 ) / 2.400 | ( 66.85 ) / 2.632 | ( 65.02 ) / 2.560 |
| 26          | ( 63.50 ) / 2.500 | ( 69.39 ) / 2.732 | ( 67.56 ) / 2.660 |
| 27          | ( 66.04 ) / 2.600 | ( 71.93 ) / 2.832 | ( 70.10 ) / 2.760 |
| 28          | ( 68.58 ) / 2.700 | ( 74.47 ) / 2.932 | ( 72.64 ) / 2.860 |
| 29          | ( 71.12 ) / 2.800 | ( 77.01 ) / 3.032 | ( 75.18 ) / 2.960 |
| 30          | ( 73.66 ) / 2.900 | ( 79.55 ) / 3.132 | ( 77.72 ) / 3.060 |
| 31          | ( 76.20 ) / 3.000 | ( 82.09 ) / 3.232 | ( 80.26 ) / 3.160 |
| 32          | ( 78.74 ) / 3.100 | ( 84.63 ) / 3.332 | ( 82.80 ) / 3.260 |

RECOMMENDED P.C. BOARD HOLE PATTERN



|                                                                                                                        |                                   |             |           |                                       |                                                                                                                               |                          |                |                    |                                                      |                           |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------|-----------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------|--------------------|------------------------------------------------------|---------------------------|--|--|--|--|
| ADDED CIRCUIT 1 INDICATOR<br>EC NO: E2008-0112<br>DRAWN BY: BRYANES<br>CHKD: 2007/09/10<br>APPR: WALLACE<br>2007/09/11 | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | DESCRIPTION | NEW       | GENERAL TOLERANCES (UNLESS SPECIFIED) |                                                                                                                               | DIMENSION STYLE<br>MM/IN |                | SCALE<br>5:1       | DESIGN UNITS<br>METRIC                               | THIRD ANGLE<br>PROJECTION |  |  |  |  |
|                                                                                                                        |                                   |             |           |                                       | mm                                                                                                                            | INCH                     | DRAWN BY<br>KS | DATE<br>1987/10/30 | C-GRID III SINGLE ROW<br>STRAIGHT SHROUDED<br>HEADER |                           |  |  |  |  |
|                                                                                                                        |                                   |             |           | 4 PLACES                              | ±---                                                                                                                          | ±---                     | CHECKED BY     | DATE               |                                                      |                           |  |  |  |  |
|                                                                                                                        |                                   |             |           | 3 PLACES                              | ±---                                                                                                                          | ±.004                    | APPROVED BY    |                    | DATE                                                 | MOLEX INCORPORATED        |  |  |  |  |
|                                                                                                                        |                                   |             |           | 2 PLACES                              | ±0.10                                                                                                                         | ±---                     |                |                    |                                                      |                           |  |  |  |  |
|                                                                                                                        |                                   |             |           | 1 PLACE                               | ±---                                                                                                                          | ±---                     | MATERIAL NO.   |                    | DOCUMENT NO.                                         | SHEET NO.<br>1 OF 100     |  |  |  |  |
|                                                                                                                        |                                   |             |           | ANGULAR ±1/2°                         |                                                                                                                               |                          |                |                    |                                                      |                           |  |  |  |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                             |                                   |             | SIZE<br>A |                                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                          |                |                    |                                                      |                           |  |  |  |  |

