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Part Number: [0901471205](#)
Status: **Active**
Overview: [cgrid_sl_products](#)
Description: 2.54mm (.100") Pitch C-Grid® PC Board Connector, Single Row, Vertical, 5 Circuits

Documents:

[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Drawing \(PDF\)](#)

Agency Certification

CSA LR19980
 UL E29179

General

Product Family PCB Receptacles
 Series [90147](#)
 Application Board-to-Board
 Overview [cgrid_sl_products](#)
 Product Name C-Grid®

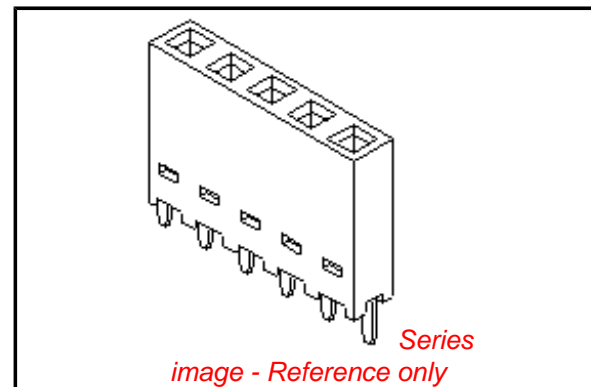
Physical

Circuits (Loaded) 5
 Color - Resin Black
 Flammability 94V-0
 Glow-Wire Compliant No
 Guide to Mating Part No
 Keying to Mating Part None
 Lock to Mating Part No
 Material - Metal Phosphor Bronze
 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 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) 15.2
 Plating min: Mating (µm) 0.38
 Plating min: Termination (µin) 120
 Plating min: Termination (µm) 3
 Polarized to PCB No
 Temperature Range - Operating -55°C to +125°C
 Termination Interface: Style Through Hole

Electrical

Current - Maximum per Contact 3A
 Grounding to PCB No
 Voltage - Maximum 350V

Solder Process Data



EU RoHS

ELV and RoHS Compliant
REACH SVHC Contains SVHC: No
Halogen-Free Status
Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email 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

[90147Series](#)

Mates With

[90120](#) , [90121](#)

Use With

[90120](#) , [90121](#)

Lead-free Process Capability

Wave Capable (TH only)

Material Info

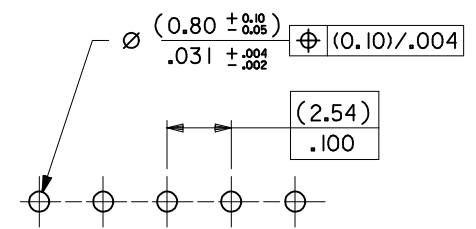
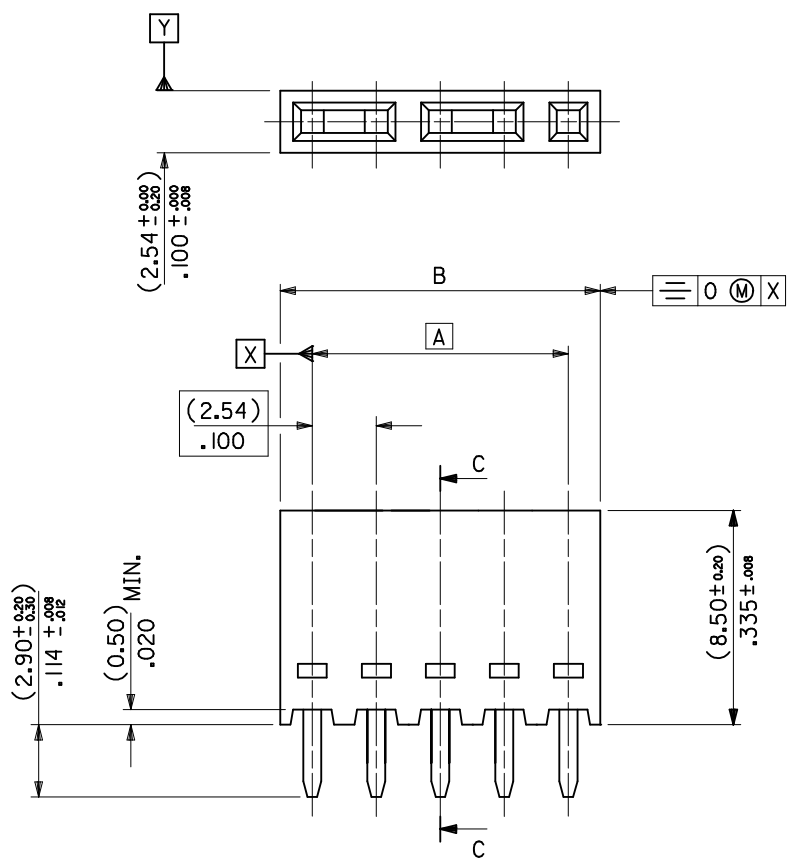
Reference - Drawing Numbers

Sales Drawing

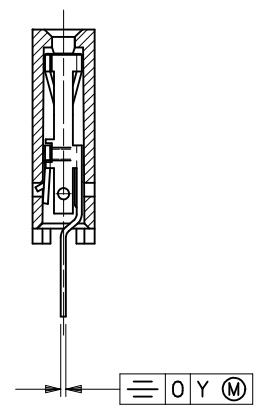
SDA-90147

This document was generated on 05/22/2010

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RECOMMENDED P.C. BOARD HOLE PATTERN FOR STRAIGHT PINS.



SECTION C-C SHOWING STRAIGHT PINS.

NOTES:

- 1) CONTACT-PLATED PHOSPHOR BRONZE.
- 2) HOUSING-15% GLASS FILLED POLYESTER. COLOUR: BLACK.
- 3) FOR (0.635)/.025 SQ. MALE PINS THE LENGTH MUST BE (5.65)/.222 MIN & (7.00)/.276 MAX. TO ENSURE GOOD CONNECTION WITH CONTACT.
- 4) PRODUCT SPECIFICATION: PS-99020-0001
- 5) PCB THICKNESS 1.6MM

ADDED GATE AREA EC NO: E2009-0250 2008/12/08 DRWN: BMAGUIRE 2008/12/08 CHKD: 2008/12/08 APPR: BMAGUIRE 2008/12/08	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
		▽=0 Ⓢ=0	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ± 2 °	MM/IN	1:1	METRIC	DRAWN BY: DB DATE: 1987/07/14 CHECKED BY: JDENNEHY DATE: 2005/07/07 APPROVED BY: JDENNEHY DATE: 2005/07/07
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE SHEET 2	TITLE: C-GRID III, SINGLE ROW VERTICAL P.C. BOARD CONNECTOR ASSEMBLY. MATERIAL NO.: DOCUMENT NO.: SDA-90147			
		SIZE: A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	SHEET NO.: 1 OF 2			

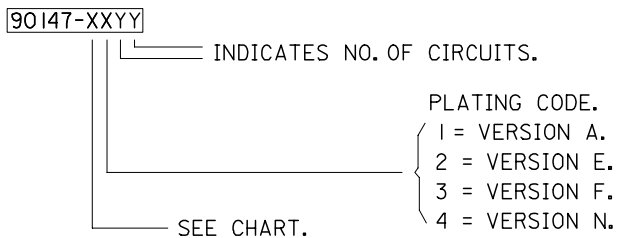
PART NO'S - STRAIGHT PINS	NO. OF CKTS	DIM. "A"	DIM. "B" (±.000)±.002	QTY. PER TUBE
90147-1X02	2	(2.54) .100	(5.08) .200	105
↑ 03	3	(5.08) .200	(7.62) .300	72
04	4	(7.62) .300	(10.16) .400	52
05	5	(10.16) .400	(12.70) .500	44
06	6	(12.70) .500	(15.24) .600	36
07	7	(15.24) .600	(17.78) .700	30
08	8	(17.78) .700	(20.32) .800	26
09	9	(20.32) .800	(22.86) .900	22
10	10	(22.86) .900	(25.40) 1.000	22
11	11	(25.40) 1.000	(27.94) 1.100	20
12	12	(27.94) 1.100	(30.48) 1.200	18
13	13	(30.48) 1.200	(33.02) 1.300	16
14	14	(33.02) 1.300	(35.56) 1.400	14
15	15	(35.56) 1.400	(38.10) 1.500	14
16	16	(38.10) 1.500	(40.64) 1.600	13
17	17	(40.64) 1.600	(43.18) 1.700	13
18	18	(43.18) 1.700	(45.72) 1.800	12
19	19	(45.72) 1.800	(48.26) 1.900	12
20	20	(48.26) 1.900	(50.80) 2.000	11
21	21	(50.80) 2.000	(53.34) 2.100	11
22	22	(53.34) 2.100	(55.88) 2.200	10
23	23	(55.88) 2.200	(58.42) 2.300	9
24	24	(58.42) 2.300	(60.96) 2.400	9
25	25	(60.96) 2.400	(63.50) 2.500	8
26	26	(63.50) 2.500	(66.04) 2.600	8
27	27	(66.04) 2.600	(68.58) 2.700	8
28	28	(68.58) 2.700	(71.12) 2.800	7
29	29	(71.12) 2.800	(73.66) 2.900	7
30	30	(73.66) 2.900	(76.20) 3.000	7
↓ 31	31	(76.20) 3.000	(78.74) 3.100	7
90147-1X 32	32	(78.74) 3.100	(81.28) 3.200	6

PLATING VERSION A
PRE-PLATED HOT DIP TIN
1.0 TO 2.5 um (.000040" TO .000100").

PLATING VERSION E
1.27 TO 1.78 um (.000050" TO .000070") NICKEL
OVERALL, 0.38 TO 0.64 um (.000015" TO .000025")
GOLD ON CONTACT AREA (OVER NICKEL),
3 TO 5 um (.000120" TO .000200") TIN
ON SOLDER TAILS (OVER NICKEL).

PLATING VERSION F.
1.27 TO 1.78 um (.000050" TO .000070") NICKEL
OVERALL, 0.76 TO 1.0 um (.000030" TO .000040")
GOLD ON CONTACT AREA (OVER NICKEL),
3 TO 5 um (.000120" TO .000200") TIN
ON SOLDER TAILS (OVER NICKEL).

PLATING VERSION N.
1.27 TO 1.78 um (.000050" TO .000070") NICKEL
OVERALL, 0.76 TO 2.6 um (.000030" TO .000100")
GOLD ON CONTACT AREA (OVER NICKEL),
4 um (.000120") MINIMUM TIN
ON SOLDER TAILS (OVER NICKEL).



STANDARD PRODUCTS

REMOVE KINK OPT
EC NO: E2007-0787
DRWN: WASZKI EWI CZ 2007/04/25
CHKD: DORJARTY 2007/04/25
APPR: DENNEHY 2007/04/27

QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

mm		INCH	
4 PLACES	± .005	± .005	
3 PLACES	± .005	± .005	
2 PLACES	± .005	± .005	
1 PLACE	± .005	± .005	

ANGULAR ± 2 °

DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE
MM/IN

DRAWN BY: DB
DATE: 1986/12/28

CHECKED BY: JDENNEHY
DATE: 2005/07/07

APPROVED BY: JDENNEHY
DATE: 2005/07/07

MATERIAL NO. SEE CHART

SCALE: 5:1

DESIGN UNITS: METRIC

THIRD ANGLE PROJECTION

TITLE: C-GRID III SINGLE ROW VERTICAL P.C. BOARD CONNECTOR

MOLEX INCORPORATED

DOCUMENT NO. SDA-90147

SHEET NO. 2 OF 2

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