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Part Number: [0901471225](#)
Status: **Active**
Overview: [cgrid_sl_products](#)
Description: 2.54mm (.100") Pitch C-Grid® PC Board Connector, Single Row, Vertical, 25 Circuits

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

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®

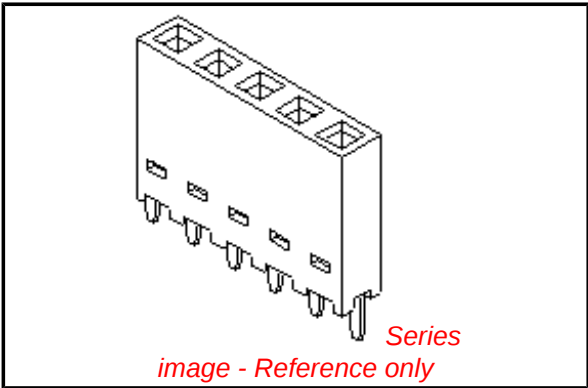
Physical

Circuits (Loaded) 25
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



Series
image - Reference only

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

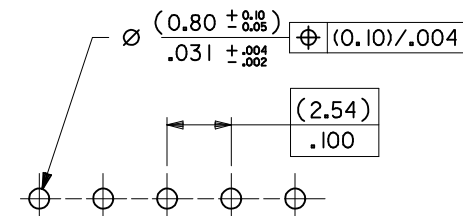
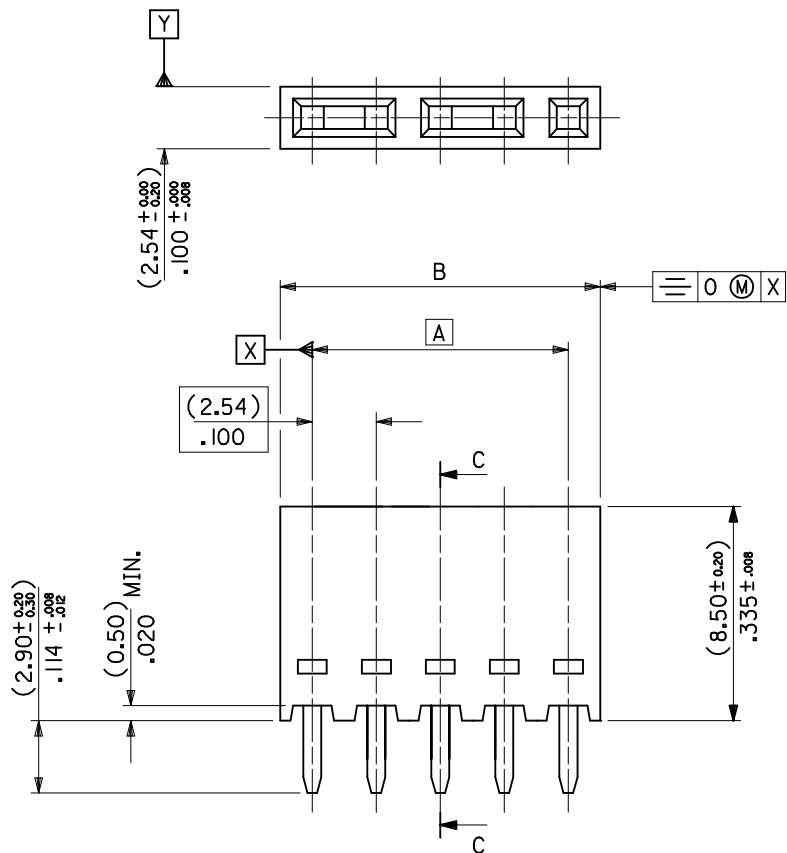
Sales Drawing

SDA-90147

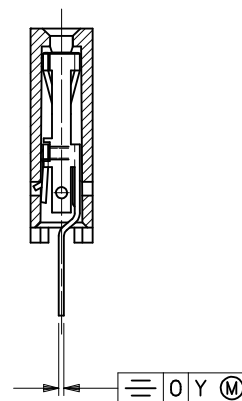
This document was generated on 05/22/2010

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10 9 8 7 6 5 4 3 2 1



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

9 8 7 6 5 4 3 2 1

	10	9	8	7	6	5	4	3	2	1		
F	PART NO'S - STRAIGHT PINS		NO.OF CKTS	DIM." A"	DIM." B" (±0.00) ±.002	QTY. PER TUBE	PLATING VERSION A					F
	STANDARD	CUSTOMER SPECIFIC					PRE-PLATED HOT DIP TIN 1.0 TO 2.5 um (.000040" TO .000100").					
	90147-1X02		2	(2.54) .100	(5.08) .200	105	PLATING VERSION E					E
	03		3	(5.08) .200	(7.62) .300	72	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).					
	04		4	(7.62) .300	(10.16) .400	52	PLATING VERSION F.					D
	05	90147-9105	5	(10.16) .400	(12.70) .500	44	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).					
	06		6	(12.70) .500	(15.24) .600	36	PLATING VERSION N.					C
	07		7	(15.24) .600	(17.78) .700	30	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).					
	08		8	(17.78) .700	(20.32) .800	26	90147-XXYY INDICATES NO. OF CIRCUITS. PLATING CODE. 1 = VERSION A. 2 = VERSION E. 3 = VERSION F. 4 = VERSION N. SEE CHART.					B
	09		9	(20.32) .800	(22.86) .900	22						
	10		10	(22.86) .900	(25.40) 1.000	22						A
	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						