

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0901471311

Status:

Active

Overview:

cgrid_sl_products

Description:

2.54mm (.100") Pitch C-Grid® PC Board Connector, Single Row, Vertical, 11 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)

11

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)

30.4

Plating min: Mating (µm)

0.76

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

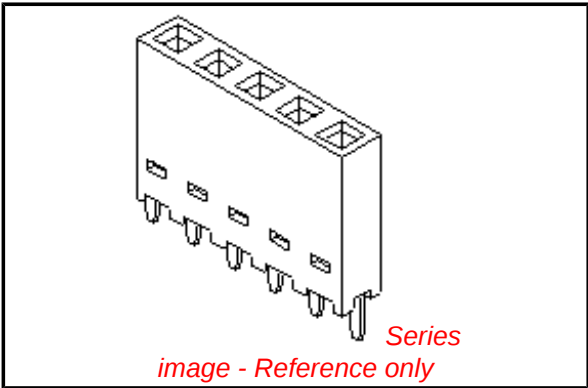


image - Reference only

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

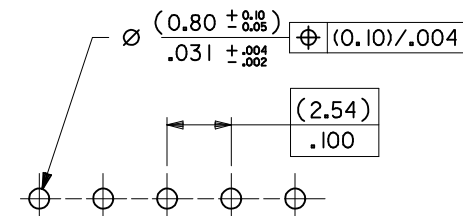
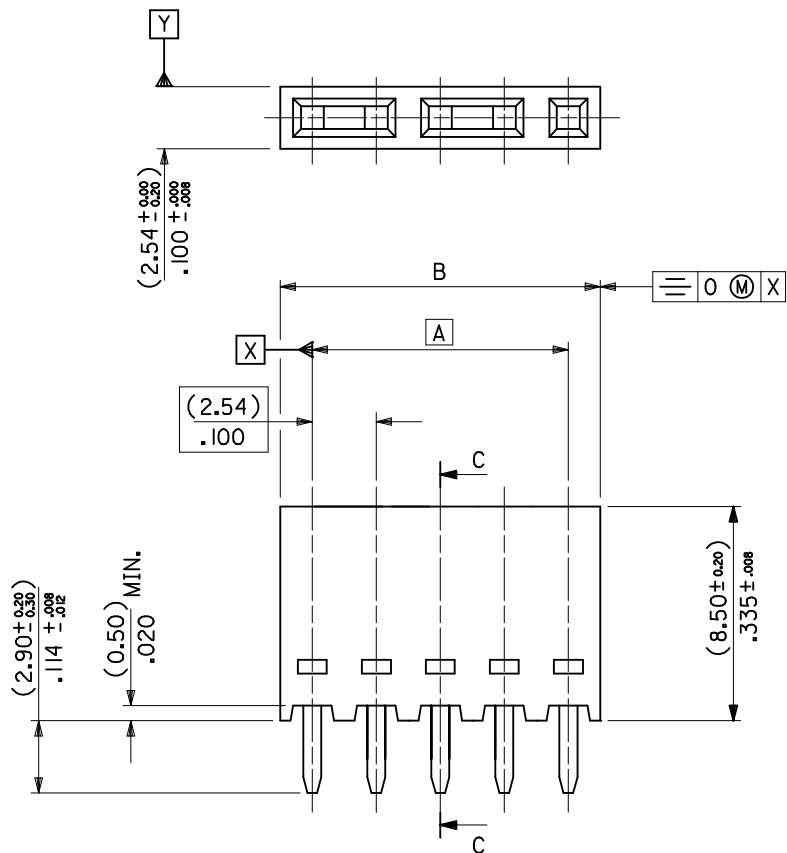
Sales Drawing

SDA-90147

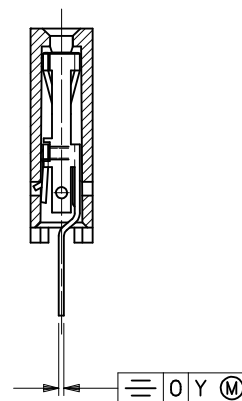
This document was generated on 05/22/2010

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

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) ± 0.02	QTY. PER TUBE	PLATING VERSION A						
	STANDARD	CUSTOMER SPECIFIC					PRE-PLATED HOT DIP TIN 1.0 TO 2.5 μ m (.000040" TO .000100").						
	90147-1X02		2	(2.54) .100	(5.08) .200	105	PLATING VERSION E						
	03		3	(5.08) .200	(7.62) .300	72	1.27 TO 1.78 μ m (.000050" TO .000070") NICKEL						
	04		4	(7.62) .300	(10.16) .400	52	OVERALL, 0.38 TO 0.64 μ m (.000015" TO .000025")						
	05	90147-9105	5	(10.16) .400	(12.70) .500	44	GOLD ON CONTACT AREA (OVER NICKEL).						
	06		6	(12.70) .500	(15.24) .600	36	3 TO 5 μ m (.000120" TO .000200") TIN						
	07		7	(15.24) .600	(17.78) .700	30	ON SOLDER TAILS (OVER NICKEL).						
	08		8	(17.78) .700	(20.32) .800	26	PLATING VERSION F.						
	09		9	(20.32) .800	(22.86) .900	22	1.27 TO 1.78 μ m (.000050" TO .000070") NICKEL						
	10		10	(22.86) .900	(25.40) 1.000	22	OVERALL, 0.76 TO 1.0 μ m (.000030" TO .000040")						
	11		11	(25.40) 1.000	(27.94) 1.100	20	GOLD ON CONTACT AREA (OVER NICKEL).						
	12		12	(27.94) 1.100	(30.48) 1.200	18	3 TO 5 μ m (.000120" TO .000200") TIN						
	13		13	(30.48) 1.200	(33.02) 1.300	16	ON SOLDER TAILS (OVER NICKEL).						
	14		14	(33.02) 1.300	(35.56) 1.400	14	PLATING VERSION N.						
	15		15	(35.56) 1.400	(38.10) 1.500	14	1.27 TO 1.78 μ m (.000050" TO .000070") NICKEL						
	16		16	(38.10) 1.500	(40.64) 1.600	13	OVERALL, 0.76 TO 2.6 μ m (.000030" TO .000100")						
	17		17	(40.64) 1.600	(43.18) 1.700	13	GOLD ON CONTACT AREA (OVER NICKEL).						
	18		18	(43.18) 1.700	(45.72) 1.800	12	4 μ m (.000120") MINIMUM TIN						
	19		19	(45.72) 1.800	(48.26) 1.900	12	ON SOLDER TAILS (OVER NICKEL).						
	20		20	(48.26) 1.900	(50.80) 2.000	11	PLATING CODE.						
	21		21	(50.80) 2.000	(53.34) 2.100	11	1 = VERSION A.						
	22		22	(53.34) 2.100	(55.88) 2.200	10	2 = VERSION E.						
	23		23	(55.88) 2.200	(58.42) 2.300	9	3 = VERSION F.						
	24		24	(58.42) 2.300	(60.96) 2.400	9	4 = VERSION N.						
	25		25	(60.96) 2.400	(63.50) 2.500	8	SEE CHART.						
	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							
B													
A	STANDARD PRODUCTS												
	REMOVE KINK OPT EC NO: E2007-0787 DRAWN: WASZKI, LEWIS 2007/04/25 CHKD: JENNEHY 2007/04/25 APPR: JENNEHY 2007/04/27 AA												
QUALITY SYMBOLS =0 =0						GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES $\pm$ --- $\pm$ --- 3 PLACES $\pm$ --- $\pm$ --- 2 PLACES $\pm$ --- $\pm$ --- 1 PLACE $\pm$ --- $\pm$ --- ANGULAR $\pm$ 2 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DIMENSION STYLE MM/IN DRAWN BY DATE DB 1986/12/28 CHECKED BY DATE JDENNEHY 2005/07/07 APPROVED BY DATE JDENNEHY 2005/07/07 MATERIAL NO. SIZE A3		SCALE 5:1 TITLE C-GRID III SINGLE ROW VERTICAL P.C. BOARD CONNECTOR MOLEX INCORPORATED DOCUMENT NO. SDA-90147		DESIGN UNITS METRIC THIRD ANGLE PROJECTION SHEET NO. 2 OF 2	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													

STANDARD PRODUCTS

REMOVE KINK OPT EC NO: E2007-0787 DRWN: WASZKIEWICZ 2007/04/25 CHKD: MORIARTY 2007/04/25 APPR: DENNEHY 2007/04/27	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION REV	AA

GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
4 PLACES	± ---	mm	INCH	DRAWN BY DB	DATE 1986/12/28	C-GRID III SINGLE ROW VERTICAL P.C. BOARD CONNECTOR	
3 PLACES	± ---	mm	INCH	CHECKED BY JDENNEHY	DATE 2005/07/07		
2 PLACES	± ---	mm	INCH	APPROVED BY JDENNEHY	DATE 2005/07/07	MOLEX INCORPORATED	
1 PLACE	± ---	mm	INCH	MATERIAL NO.	DOCUMENT NO.		
ANGULAR ± 2 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SDA-90147	
SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO. 2 OF 2			