

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0901471115

Status:

Active

Overview:

cgrid_sl_products

Description:

2.54mm (.100") Pitch C-Grid® PC Board Connector, Single Row, Vertical, 15 Circuits, Tin (Sn) Plating

Documents:

3D Model

RoHS Certificate of Compliance (PDF)

Drawing (PDF)

Agency Certification

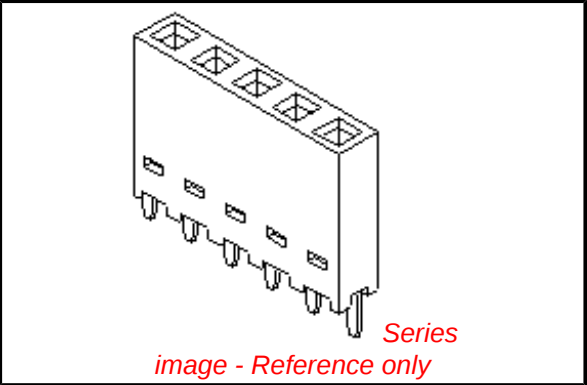
CSA	LR19980
UL	E29179

General

Product Family	PCB Receptacles
Series	90147
Application	Board-to-Board
Overview	cgrid_sl_products
Product Name	C-Grid®

Physical

Circuits (Loaded)	15
Circuits (maximum)	15
Color - Resin	Black
Durability (mating cycles max)	30
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	Tin
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)	0.063 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
Pitch - Term. Interface (in)	0.100 In
Pitch - Term. Interface (mm)	2.54 mm
Plating min: Mating (µin)	40
Plating min: Mating (µm)	1.00
Plating min: Termination (µin)	40
Plating min: Termination (µm)	1.00
Polarized to Mating Part	No
Polarized to PCB	No
Stackable	No
Surface Mount Compatible (SMC)	No



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

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

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 AC/DC

Material Info

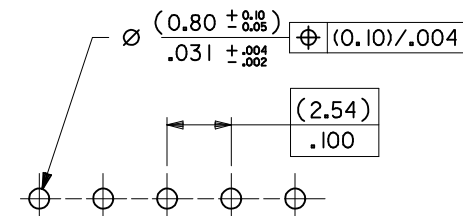
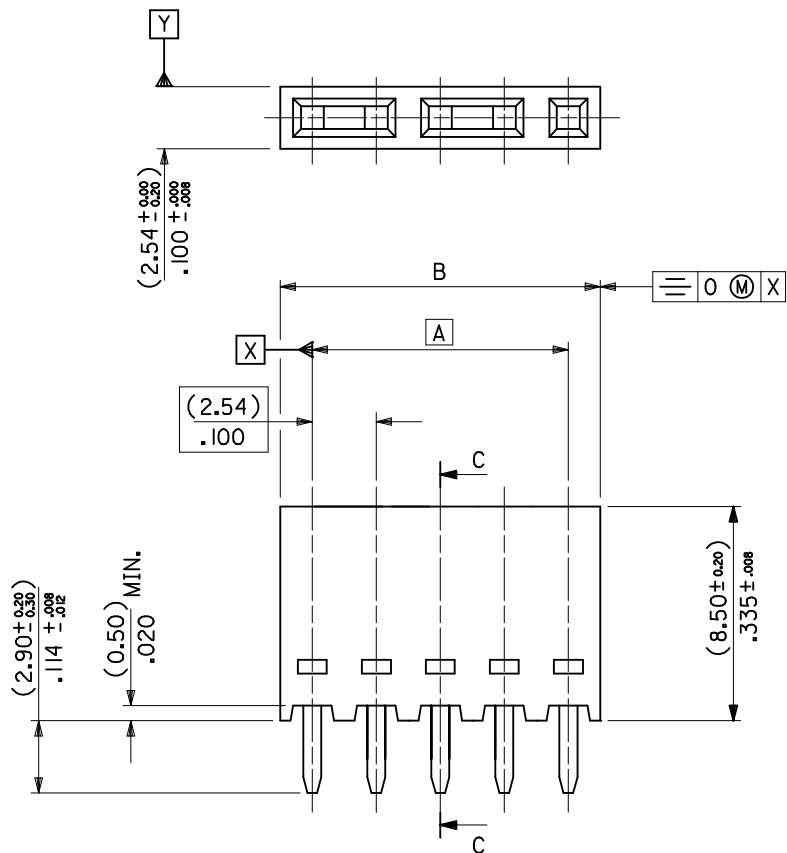
Reference - Drawing Numbers

Sales Drawing	SDA-90147
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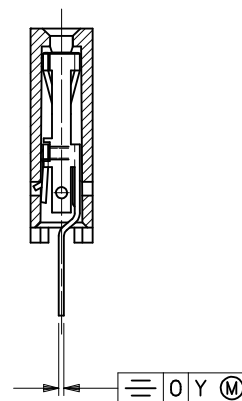
This document was generated on 05/22/2010

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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 C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	C-GRID III, SINGLE ROW VERTICAL P.C. BOARD CONNECTOR ASSEMBLY. MOLEX INCORPORATED				
				4 PLACES	mm	INCH	DRAWN BY DB	DATE 1987/07/14	TITLE						
					3 PLACES	± ---	± ---	CHECKED BY JDENNEHY				DATE 2005/07/07			
						2 PLACES	± ---	± ---				APPROVED BY JDENNEHY	DATE 2005/07/07		
							1 PLACE	± ---				± ---	MATERIAL NO.	DOCUMENT NO.	SHEET NO.
				ANGULAR ± 2 °		SEE SHEET 2		SDA-90147				1 OF 2			
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		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						
	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						
	03		3	(5.08) .200	(7.62) .300	72	1.27 TO 1.78 um (.000050" TO .000070") NICKEL						
	04		4	(7.62) .300	(10.16) .400	52	OVERALL, 0.38 TO 0.64 um (.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 um (.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 um (.000050" TO .000070") NICKEL						
	10		10	(22.86) .900	(25.40) 1.000	22	OVERALL, 0.76 TO 1.0 um (.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 um (.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 um (.000050" TO .000070") NICKEL						
	16		16	(38.10) 1.500	(40.64) 1.600	13	OVERALL, 0.76 TO 2.6 um (.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 um (.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 ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ± 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													
	10	9	8	7	6	5	4	3	2	1			

STANDARD PRODUCTS

REMOVE KINK OPT EC NO: E2007-0787 DRWN:DMASZK/EMI C7 2007/04/25 CHKD:DMOR/ARTY 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	
	mm	INCH	DRAWN BY	DATE	C-GRID III SINGLE ROW VERTICAL P.C. BOARD CONNECTOR		
4 PLACES	± ---	± ---	DB	1986/12/28			
3 PLACES	± ---	± ---	CHECKED BY	DATE			
2 PLACES	± ---	± ---	JDENNEHY	2005/07/07			
1 PLACE	± ---	± ---	APPROVED BY	DATE	MOLEX INCORPORATED		
ANGULAR ± 2 °		JDENNEHY	2005/07/07	MOLEX			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.		DOCUMENT NO.		SHEET NO.
			SEE CHART		SDA-90147		2 OF 2
			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			