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Part Number: **0901512118**
Status: **Active**
Overview: cgrid_sl_products
Description: 2.54mm (.100") Pitch C-Grid III™ PC Board Connector, Dual Row, Vertical, 18 Circuits

Documents:

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

General

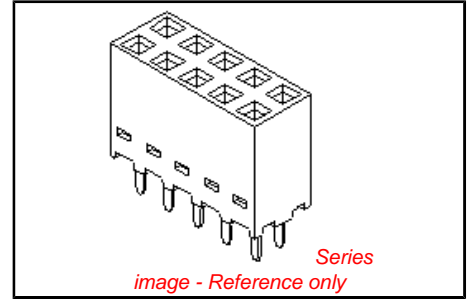
Product Family PCB Receptacles
 Series 90151
 Application Board-to-Board
 Overview cgrid_sl_products
 Product Name C-Grid III™

Physical

Circuits (Loaded) 18
 Circuits (maximum) 18
 Color - Resin Black
 Durability (mating cycles max) 500
 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 2
 Orientation Vertical
 PC Tail Length (in) 0.102 In
 PC Tail Length (mm) 2.60 mm
 PCB Locator No
 PCB Retention None
 PCB Thickness Recommended (in) 0.031 In, 0.067 In
 PCB Thickness Recommended (mm) 1.20 mm, 1.70 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 Yes
 Surface Mount Compatible (SMC) No
 Temperature Range - Operating -55°C to +125°C
 Termination Interface: Style Through Hole

Electrical

Current - Maximum per Contact 3A
 Grounding to PCB 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
 90151Series

Mates With
 0.64mm (.025") square pins

Voltage - Maximum

350V AC/DC

Solder Process Data

Lead-free Process Capability

Wave Capable (TH only)

Material Info

Reference - Drawing Numbers

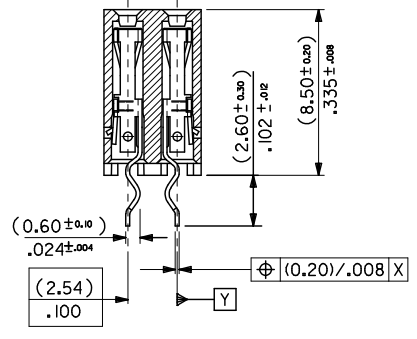
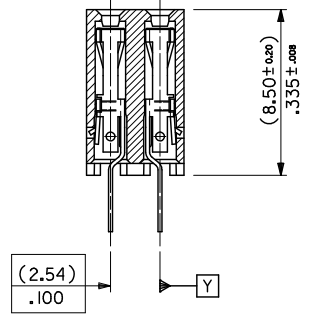
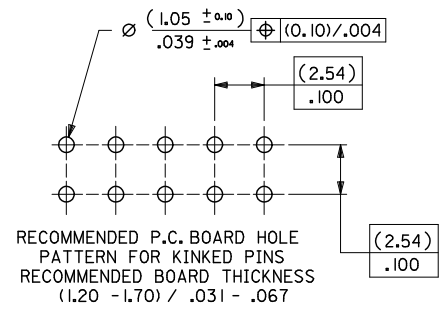
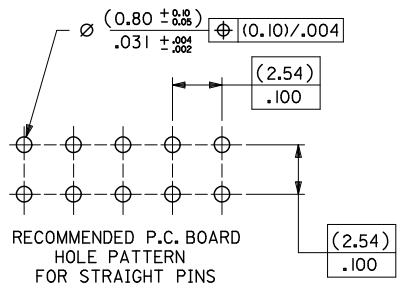
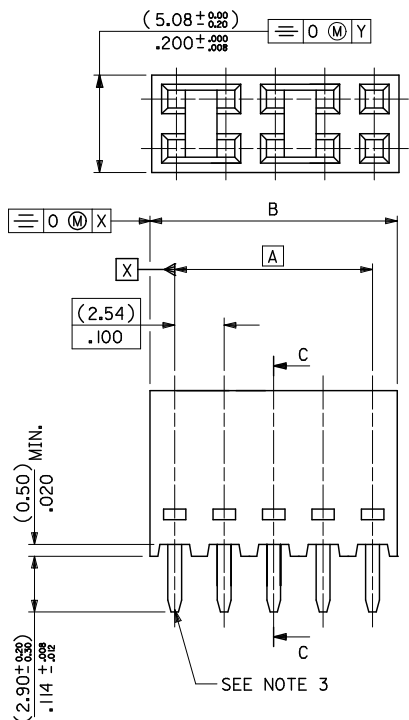
Sales Drawing

SDA-90151

This document was generated on 05/24/2010

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10 9 8 7 6 5 4 3 2 1



- NOTES
- CONTACT-PLATED PHOSPHOR BRONZE.
 - HOUSING-15% GLASS FILLED POLYESTER. COLOUR-BLACK.
 - COMPATIBLE WITH PCB HOLE PATTERN.
 - 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.

6	AF
5	AD
4	AD
3	AD
2	AG
1	AH

ADD INSET FOR GATE EIC NO: E2009-0250 DRWN: BMAGUIRE 2008/12/08 CHYD: 2008/12/08 APPR: BMAGUIRE 2008/12/08 AH	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.05 ± --- 1 PLACE ± 0.10 ± --- ANGULAR ± --- °	DRAWN BY DB	DATE 21/07/86	TITLE C-GRID III DUAL ROW VERTICAL P.C. BOARD CONNECTOR			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	CHECKED BY DATE	APPROVED BY DATE	MOLEX INCORPORATED			
		MATERIAL NO. SEE CHART	DOCUMENT NO. SDA-90151	SHEET NO. 1 OF 5	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

PART NO. SEE CHART
 DWG. NO. SDA-90151

PART NO. STRAIGHT PINS	PART NO. KINKED PINS	NO. OF CKTS.	DIM. "A"	DIM. "B" (.0001")(.0002")	QTY. PER TUBE
90151-2X04	90151-3X04	4	(2.54) .100	(5.08) .200	105
↑ 06	↑ 06	6	(5.08) .200	(7.62) .300	72
08	08	8	(7.62) .300	(10.16) .400	52
10	10	10	(10.16) .400	(12.70) .500	44
12	12	12	(12.70) .500	(15.24) .600	36
14	14	14	(15.24) .600	(17.78) .700	30
16	16	16	(17.78) .700	(20.32) .800	26
18	18	18	(20.32) .800	(22.86) .900	24
20	20	20	(22.86) .900	(25.40) 1.000	22
22	22	22	(25.40) 1.000	(27.94) 1.100	20
24	24	24	(27.94) 1.100	(30.48) 1.200	18
26	26	26	(30.48) 1.200	(33.02) 1.300	16
28	28	28	(33.02) 1.300	(35.56) 1.400	14
30	30	30	(35.56) 1.400	(38.10) 1.500	14
32	32	32	(38.10) 1.500	(40.64) 1.600	13
34	34	34	(40.64) 1.600	(43.18) 1.700	12
36	36	36	(43.18) 1.700	(45.72) 1.800	12
38	38	38	(45.72) 1.800	(48.26) 1.900	11
40	40	40	(48.26) 1.900	(50.80) 2.000	11
42	42	42	(50.80) 2.000	(53.34) 2.100	11
44	44	44	(53.34) 2.100	(55.88) 2.200	10
46	46	46	(55.88) 2.200	(58.42) 2.300	10
48	48	48	(58.42) 2.300	(60.96) 2.400	9
50	50	50	(60.96) 2.400	(63.50) 2.500	8
52	52	52	(63.50) 2.500	(66.04) 2.600	8
54	54	54	(66.04) 2.600	(68.58) 2.700	8
56	56	56	(68.58) 2.700	(71.12) 2.800	7
58	58	58	(71.12) 2.800	(73.66) 2.900	7
60	60	60	(73.66) 2.900	(76.20) 3.000	7
↓ 62	↓ 62	62	(76.20) 3.000	(78.74) 3.100	7
90151-2X64	90151-3X64	64	(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 G.
 1.27 TO 1.78 um (.000050" TO .000070") NICKEL
 OVERALL, 0.125 um MIN. (.000005" MIN.) GOLD FLASH
 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

90151-XX YY

INDICATES NO. OF CIRCUITS.
 PLATING CODE.
 1 = VERSION A.
 2 = VERSION E.
 3 = VERSION F.
 4 = VERSION N.
 5 = VERSION G.
 SEE CHART

FOR PREVIOUS
 DRAWING ISSUES
 SEE MRI.

LEAD FREE CONVERSION
 NEW BORDER ADDED
 IBC NO. E2004-0610
 DRAWN: PSHEJIAN 06/01/2004
 CHK: APPR:
 AH

QUALITY SYMBOLS
 MAJOR
 CRITICAL
 C

GENERAL TOLERANCES: (UNLESS SPECIFIED)	
mm	INCH
4 PLACES ±0.	±.
3 PLACES ±0.	±.
2 PLACES ±0.	±.
1 PLACE ±0.	±.
ANGULAR: ± °	

SCALE DESIGN UNITS
 mm INCH
 DRAWN BY & DATE
 DB 14/ 7/87
 CHECKED BY & DATE
 APPROVED BY & DATE
 CAD FILENAME S490151X2.DWG

THIRD ANGLE PROJECTION
 DIMENSIONS: mm INCH mm ONLY
 TITLE: C-GRID III DUAL ROW VERTICAL P.C. BOARD CONNECTOR
 MOLEX INCORPORATED
 MATERIAL NO. SEE CHART
 DRAWING NO. SDA-90151
 SHEET NO. 20F
 SIZE B

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS
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7132-1283 10 9 8 7 6 5 4 3 2 1