

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0901512110](#)  
**Status:** **Active**  
**Overview:** [cgrid\\_sl\\_products](#)  
**Description:** 2.54mm (.100") Pitch C-Grid III™ PC Board Connector, Dual Row, Vertical, 10 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**

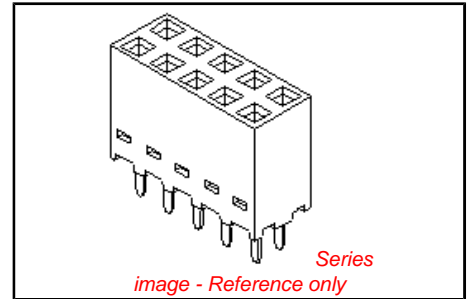
Circuits (Loaded) 10  
 Color - Resin Black  
 Glow-Wire Compliant No  
 Guide to Mating Part No  
 Keying to Mating Part None  
 Lock to Mating Part No  
 Material - Metal Phosphor Bronze  
 Material - Plating Mating Tin  
 Material - Plating Termination Tin  
 Material - Resin Polyester  
 Number of Rows 2  
 Orientation Vertical  
 PC Tail Length (in) 0.114 In  
 PC Tail Length (mm) 2.90 mm  
 PCB Locator No  
 PCB Retention None  
 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) 40  
 Plating min: Mating (µm) 1.00  
 Plating min: Termination (µin) 40  
 Plating min: Termination (µm) 1.00  
 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**

Duration at Max. Process Temperature (seconds) 2  
 Lead-free Process Capability Wave Capable (TH only)  
 Max. Cycles at Max. Process Temperature 1  
 Process Temperature max. C 235



<p><b>EU RoHS</b>  <b>ELV and RoHS</b>  <b>Compliant</b>  <b>REACH SVHC</b>  <b>Contains SVHC: No</b>  <b>Halogen-Free</b>  <b>Status</b>  <b>Not Halogen-Free</b></p>	<p><b>China RoHS</b></p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------

**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto: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

**Material Info**

**Reference - Drawing Numbers**

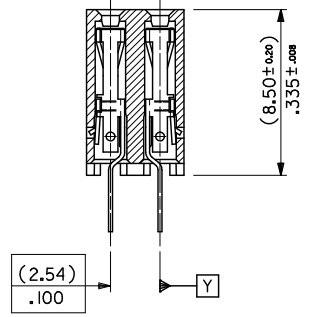
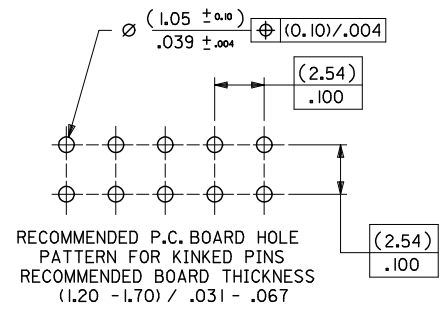
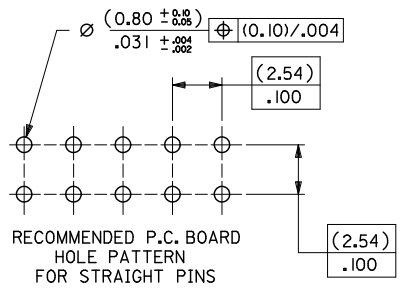
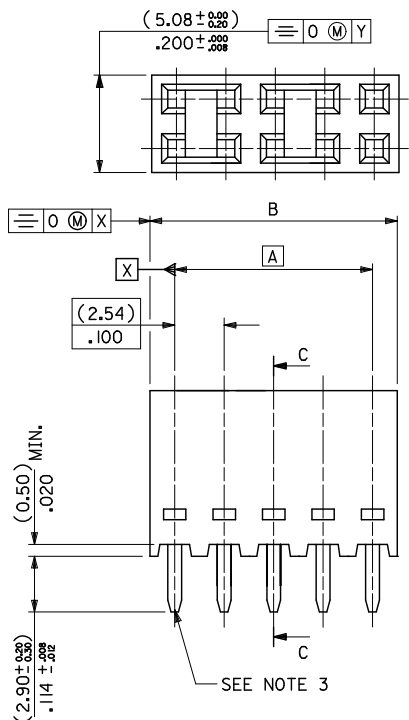
Sales Drawing

SDA-90151

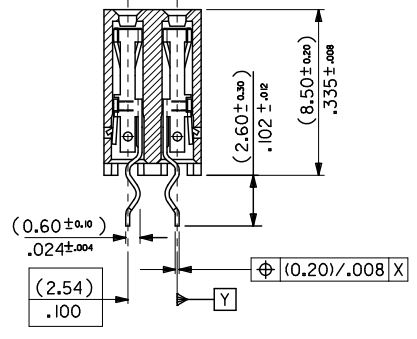
This document was generated on 05/24/2010

**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**

10 9 8 7 6 5 4 3 2 1



SECTION C-C



SECTION C-C

NOTES

- 1) CONTACT-PLATED PHOSPHOR BRONZE.
- 2) HOUSING-15% GLASS FILLED POLYESTER. COLOUR-BLACK.
- 3) COMPATIBLE WITH PCB HOLE PATTERN.
- 4) 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  
 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.  
 REVISE ON CAD ONLY  
 SIZE B

7132-1283 10 9 8 7 6 5 4 3 2 1