

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0901513520

Status:

Active

Overview:

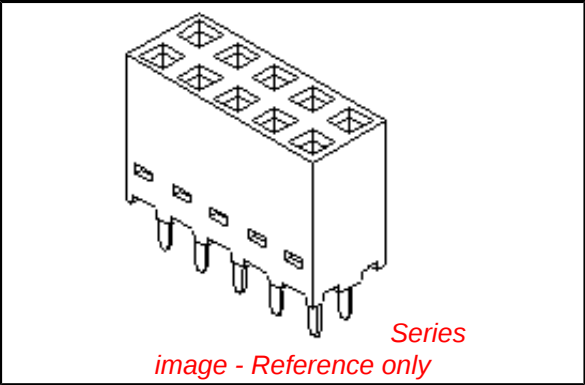
cgrid_sl_products

Description:

2.54mm (.100") Pitch C-Grid III™ PC Board Connector, Dual Row, Vertical, 20 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)	20
Circuits (maximum)	20
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	Gold
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)	5
Plating min: Mating (µm)	0.125
Plating min: Termination (µin)	160
Plating min: Termination (µm)	4
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

Contains SVHC: No

Halogen-Free

Status

Not Halogen-Free

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

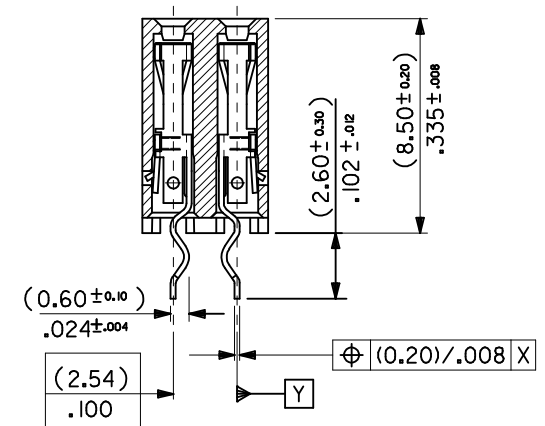
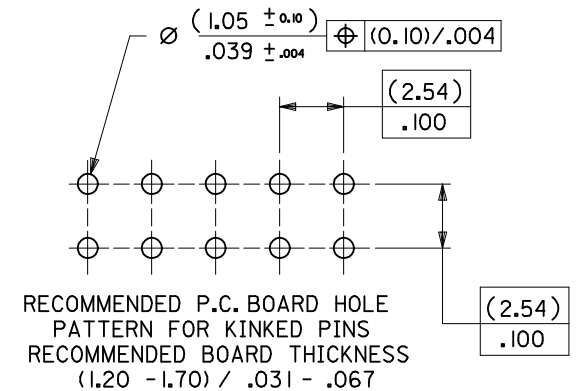
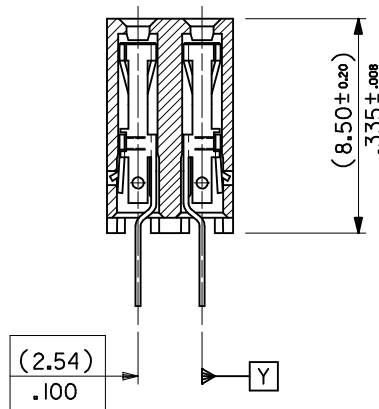
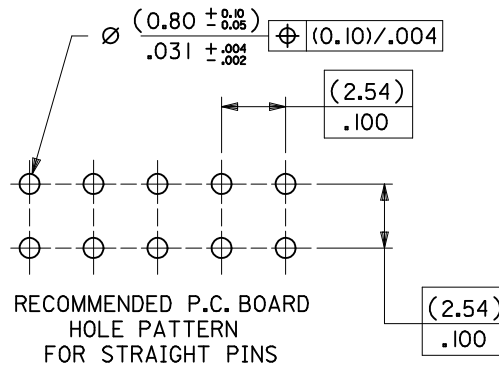
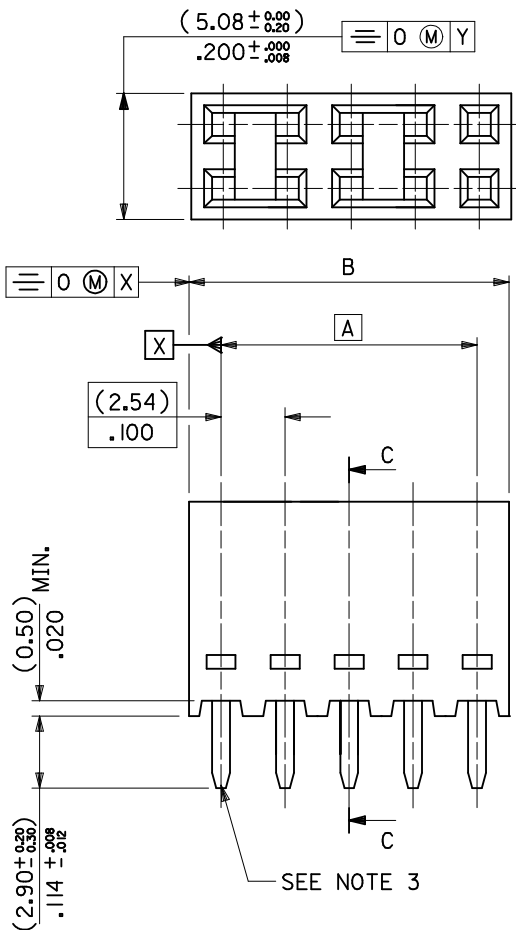
Reference - Drawing Numbers

Sales Drawing

SDA-90151

This document was generated on 05/24/2010

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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.

ADD INSET FOR GATE EC NO: E2009-0250 DRWN:BMAGUIRE 2008/12/08 CHKD: 2008/12/08 APPR:BMAGUIRE 2008/12/08 AH		DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION																		
				<table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>2 PLACES</td><td>± 0.05</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± 0.10</td><td>± ---</td></tr><tr><td colspan="3">ANGULAR ± ---°</td></tr></table>			mm	INCH	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 MOLEX INCORPORATED
					mm	INCH																						
				4 PLACES	± ---	± ---																						
				3 PLACES	± ---	± ---																						
2 PLACES	± 0.05	± ---																										
1 PLACE	± 0.10	± ---																										
ANGULAR ± ---°																												
		CHECKED BY		DATE																								
		APPROVED BY		DATE																								
		MATERIAL NO.		DOCUMENT NO.	SHEET NO. 1 OF 5																							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SDA-90151																								
		SIZE A3		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		
F	SEE CHART		SDA-90151																	F
	PART NO.	DWG. NO.																		
E																				E
D																				D
C																				C
B																				B
A																				A

PART NO. STRAIGHT PINS	PART NO. KINKED PINS	NO.OF CKTS.	DIM." A"	DIM." B" (± 0.00) ± 0.012	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 μ m (.000040" TO .000100").

PLATING VERSION E

1.27 TO 1.78 μ m (.000050" TO .000070") NICKEL

OVERALL, 0.38 TO 0.64 μ m (.000015" TO .000025")

GOLD ON CONTACT AREA (OVER NICKEL).

3 TO 5 μ m (.000120" TO .000200") TIN

ON SOLDER TAILS (OVER NICKEL).

PLATING VERSION F

1.27 TO 1.78 μ m (.000050" TO .000070") NICKEL

OVERALL, 0.76 TO 1.0 μ m (.000030" TO .000040")

GOLD ON CONTACT AREA (OVER NICKEL).

3 TO 5 μ m (.000120" TO .000200") TIN

ON SOLDER TAILS (OVER NICKEL).

PLATING VERSION G

1.27 TO 1.78 μ m (.000050" TO .000070") NICKEL

OVERALL, 0.125 μ m MIN. (.000005" MIN.) GOLD FLASH

ON CONTACT AREA (OVER NICKEL).

3 TO 5 μ m (.000120" TO .000200") TIN

ON SOLDER TAILS (OVER NICKEL).

PLATING VERSION N

1.27 TO 1.78 μ m (.000050" TO .000070") NICKEL

OVERALL, 0.76 TO 2.6 μ m (.000030" TO .000100")

GOLD ON CONTACT AREA (OVER NICKEL).

4 μ m (.000120") MINIMUM TIN

ON SOLDER TAILS (OVER NICKEL).

STANDARD PRODUCTS

90151-XXXX

INDICATES NO. OF CIRCUITS.

SEE CHART

PLATING CODE.
1 = VERSION A.
2 = VERSION E.
3 = VERSION F.
4 = VERSION N.
5 = VERSION G.

FOR PREVIOUS
DRAWING ISSUES
SEE MRI.

LEAD FREE CONVERSION
NEW BORDER ADDED
EC NO. E2004-0610
DRWN: PSHEAHAN 06/01/2004
CHK:
APPR:
AH

DESCRIPTION
MAJOR
CRITICAL
REV

QUALITY
SYMBOLS

GENERAL TOLERANCES:
(UNLESS SPECIFIED)

SCALE

DESIGN UNITS
☒ mm ☐ INCH

THIRD ANGLE
PROJECTION

DIMENSIONS:
☐ mm ☐ INCH ☐ mm ONLY

SHT

REV

DRAWN BY & DATE
DB 14/ 7/87

CHECKED BY & DATE

APPROVED BY & DATE

CAD FILENAME
SA90151X2
DGN

MATERIAL NO.
SEE CHART

DRAWING NO.
SDA-90151

SHEET NO.
20F

DRAFT WHERE APPLICABLE MUST
REMAIN WITHIN DIMENSIONS

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INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.

SIZE
B

TITLE:
C-GRID III
DUAL ROW VERTICAL
P.C. BOARD CONNECTOR
MOLEX INCORPORATED

7132-1283