

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

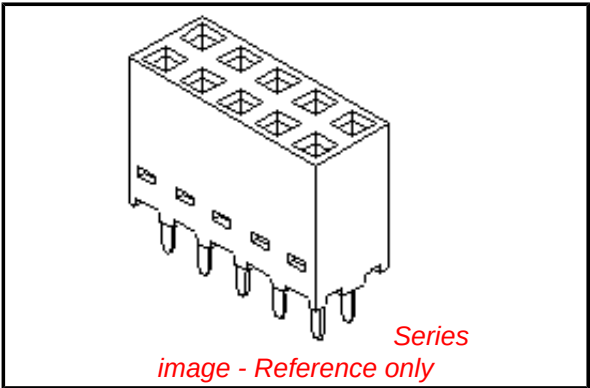
Part Number: [0901512118](#)
Status: **Active**
Overview: [cgrid_sl_products](#)
Description: 2.54mm (.100") Pitch C-Grid III™ PC Board Connector, Dual Row, Vertical, 18 Circuits

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.

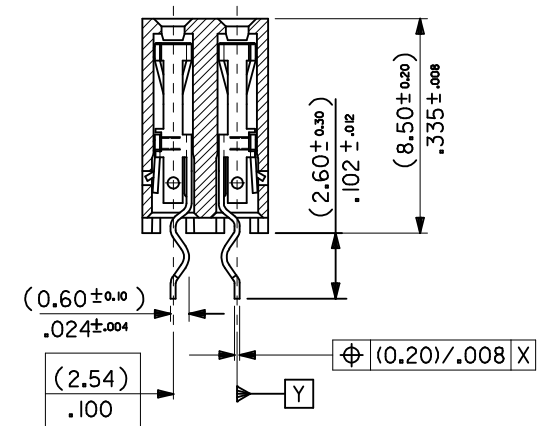
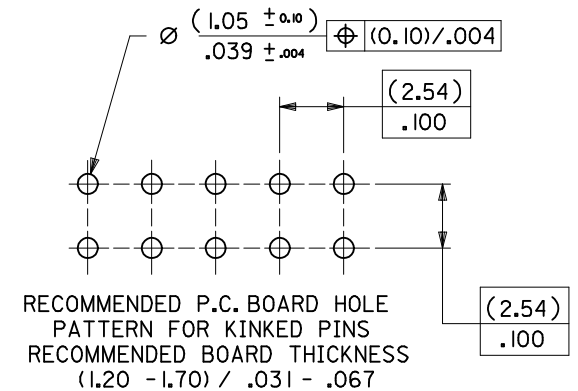
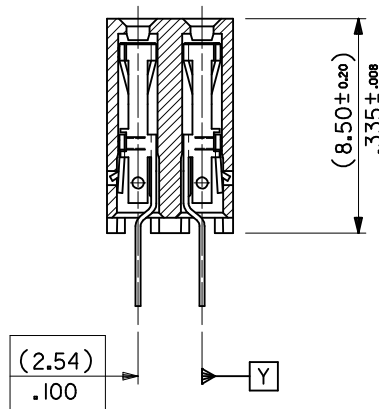
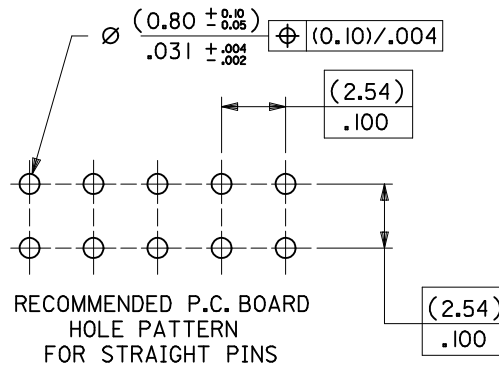
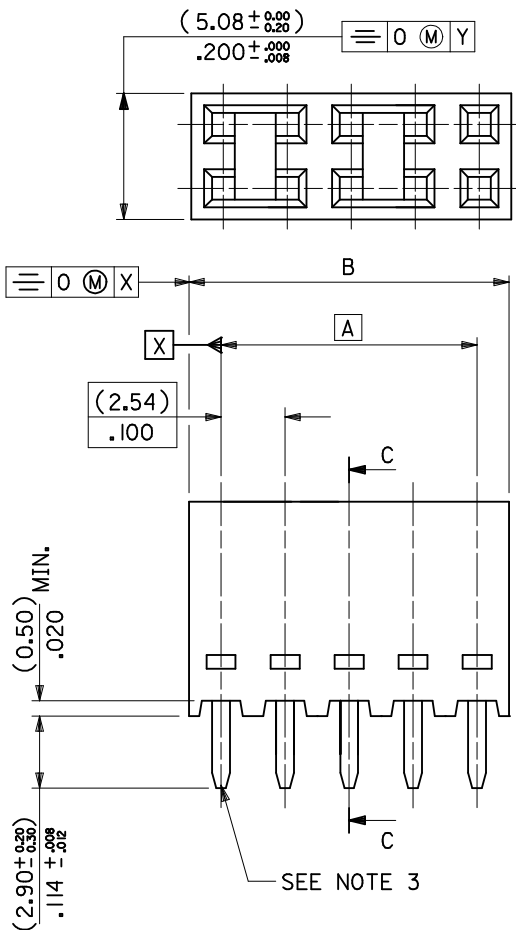
Search Parts in this Series
[90151Series](#)

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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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 2008/12/08
DRWN:BMAGUIRE 2008/12/08
CHKD:
APPR:BMAGUIRE 2008/12/08
AH

QUALITY
SYMBOLS
▽=0
C=0
REV

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.05	± ---
1 PLACE	± 0.10	± ---
ANGULAR ± ---°		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE MM ONLY	
DRAWN BY	DATE
DB	21/07/86
CHECKED BY	DATE
APPROVED BY	DATE
MATERIAL NO.	DOCUMENT NO.
SIZE	SEE CHART
A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
TITLE C-GRID III DUAL ROW VERTICAL P.C. BOARD CONNECTOR		
molex MOLEX INCORPORATED		
SDA-90151		SHEET NO. 1 OF 5

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

PLATING VERSION A

PRE-PLATED HOT DIP TIN

1.0 TO 2.5 μm (.000040" TO .000100").

PLATING VERSION E

1.27 TO 1.78 um (.000050" TO .000070") NICKEL

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

GOLD ON CONTACT AREA (OVER NICKEL).

3 TO 5 μm (.000120" TO .000200") TIN

ON SOLDER TAILS (OVER NICKEL).

PLATING VERSION F.

1.27 TO 1.78 μm (.000050" TO .000070") NICKEL

OVERALL, 0.76 TO 1.0 μm (.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 μm (.000050" TO .000070") NICKEL

OVERALL, 0.125 um MIN. (.000005" MIN.) GOLD FLASH

ON CONTACT AREA (OVER NICKEL).

3 TO 5 μm (.000120" TO .000200") TIN

ON SOLDER TAILS (OVER NICKEL).

PLATING VERSION N.

1.27 TO 1.78 μm (.000050" TO .000070") NICKEL

OVERALL, 0.76 TO 2.6 μm (.000030" TO .000100")

GOLD ON CONTACT AREA (OVER NICKEL).

4 μm (.000120") MINIMUM TIN

ON SOLDER TAILS (OVER NICKEL).

STANDARD PRODUCTS

UNITS: (ED)	SCALE	DESIGN UNITS ☒ MM ☐ INCH	 THIRD ANGLE PROJECTION	DIMENSIONS: ☐ MM ☐ INCH ☐ MM ONLY	SHT	REV
INCH	DRAWN BY & DATE DB 14/ 7/87		TITLE: C-GRID III DUAL ROW VERTICAL P.C. BOARD CONNECTOR	REVISIONS ON CAD ONLY		
±.	CHECKED BY & DATE					
±.	APPROVED BY & DATE					
±.	CAD FILENAME SA90151X2 DGN		MOLEX 			
±.			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.			SIZE B		

PART NO. STRAIGHT PINS	PART NO. KINKED PINS	NO.OF CKTS.	DIM." A"	DIM." B" (± 0.09) (± 0.000) (-0.36) (-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

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 EC NO. E2004-0610 DRWN: PS:SEAHAN 06/01/2004 CHK'g: APPR:	DESCRIPTION MAJOR  CRITICAL 	QUALITY SYMBOLS
AH REV		

GENERAL TOLERANCES: (UNLESS SPECIFIED)		
	MM	INCH
4 PLACES	±0.	±.
3 PLACES	±0.	±.
2 PLACES	±0.	±.
1 PLACE	±0.	±.
ANGULAR: ± °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

SCALE	DESIGN UNITS ☒ mm ☐ INCH
DRAWN BY & DATE DB 14/ 7/87	
CHECKED BY & DATE	
APPROVED BY & DATE	
CAD FILENAME SA90151x2 DGN	
THIS DRAWING CONTAINS UNINCORPORATED AND SHOWN	

 THIRD ANGLE PROJECTION	☐ mm INCH	☐ INCH mm	☐ mm ONLY	DATE: _____ REVISION: _____ BY: _____ CHECKED: _____ APPROVED: _____
	TITLE: C-GRID III DUAL ROW VERTICAL P.C. BOARD CONNECTOR			REVISION ON CAD ONLY
MOLEX INCORPORATED				
MATERIAL NO. SEE CHART	DRAWING NO. SDA-90151		SHEET NO. 20F	
THIS INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.				SIZE B