

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0901512120

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

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family

Series

Application

Overview

Product Name

PCB Receptacles

90151

Board-to-Board

cgrid_sl_products

C-Grid III™

Physical

Circuits (Loaded)

Color - Resin

Glow-Wire Compliant

Guide to Mating Part

Keying to Mating Part

Lock to Mating Part

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Rows

Orientation

PC Tail Length (in)

PC Tail Length (mm)

PCB Locator

PCB Retention

PCB Thickness Recommended (in)

PCB Thickness Recommended (mm)

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Plating min: Termination (µin)

Plating min: Termination (µm)

Polarized to PCB

Temperature Range - Operating

Termination Interface: Style

20

Black

No

No

None

No

Phosphor Bronze

Tin

Tin

Polyester

2

Vertical

0.114 In

2.90 mm

No

None

0.062 In

1.60 mm

Tube

0.100 In

2.54 mm

40

1.00

40

1.00

No

-55°C to +125°C

Through Hole

Electrical

Current - Maximum per Contact

Grounding to PCB

Voltage - Maximum

3A

No

350V

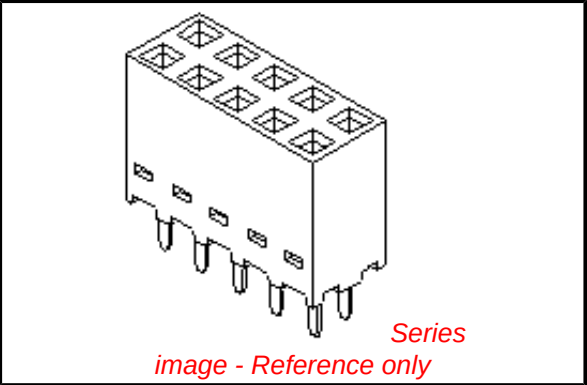
Solder Process Data

Lead-free Process Capability

Wave Capable (TH only)

Material Info

Reference - Drawing Numbers



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

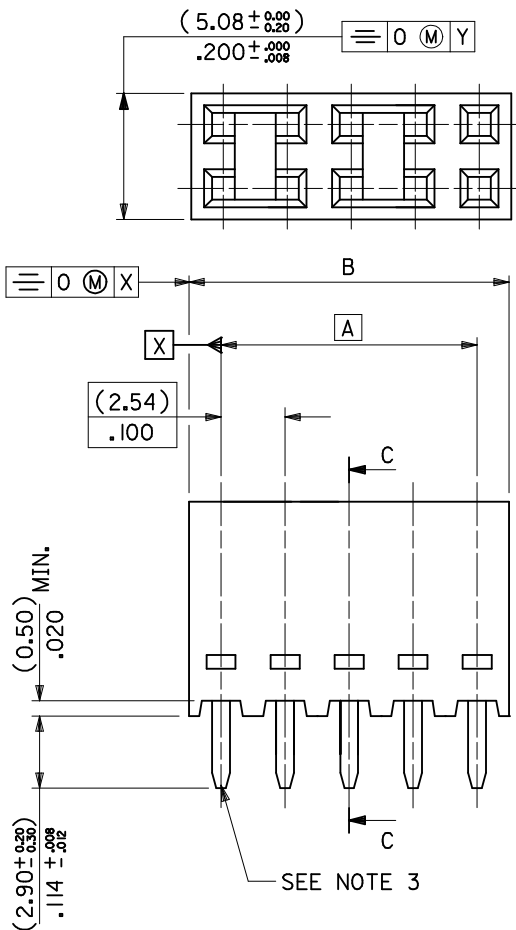
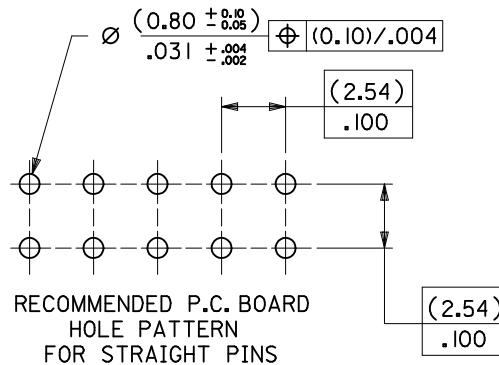
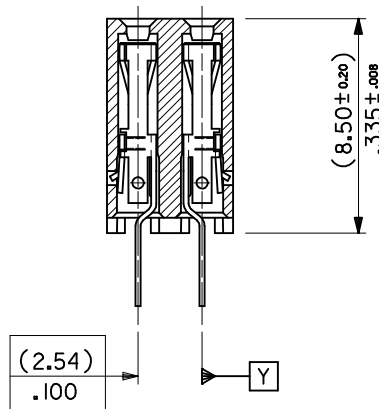
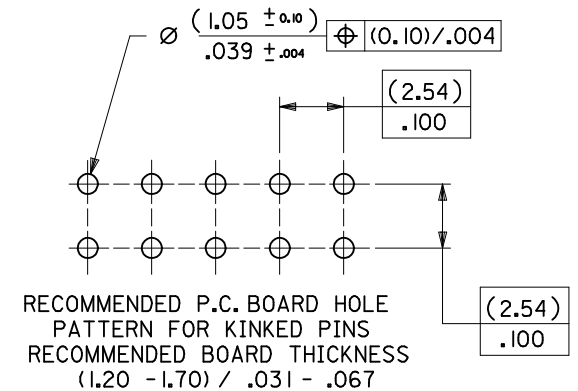
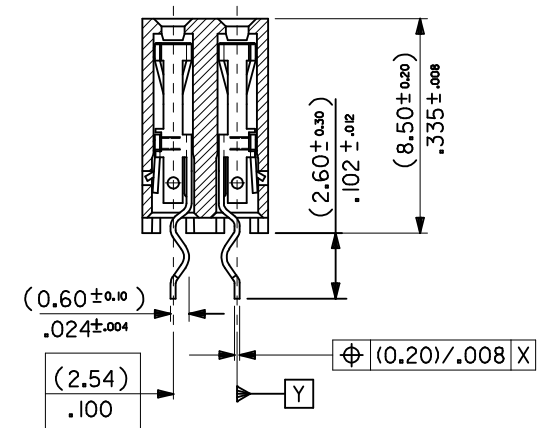
90151Series

Mates With

0.64mm (.025") square pins

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 μm (.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 REVISE ON CAD ONLY	REV
INCH	DRAWN BY & DATE DB 14/ 7/87		TITLE: C-GRID III DUAL ROW VERTICAL P.C. BOARD CONNECTOR			
±.	CHECKED BY & DATE					
±.	APPROVED BY & DATE					
±.	CAD FILENAME SA90151X2 DGN		 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.					SIZE B

PART NO. STRAIGHT PINS	PART NO. KINKED PINS	NO.OF CKTS.	DIM." A"	DIM." B" (± 0.09) (± 0.002)	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'd: APPR:	DESCRIPTION MAJOR  CRITICAL 
AH REV	QUALITY SYMBOLS

GENERAL TOLERANCES: (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	$\pm 0.$	$\pm .$
3 PLACES	$\pm 0.$	$\pm .$
2 PLACES	$\pm 0.$	$\pm .$
1 PLACE	$\pm 0.$	$\pm .$
ANGULAR: $\pm$ °		
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 INCORPORATED AND SH	

 THIRD ANGLE PROJECTION	☐ mm INCH	☐ INCH mm	☐ mm ONLY	REVISION ON CAD 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 INFORMATION THAT IS PROPRIETARY TO MOLEX COULD NOT BE USED WITHOUT WRITTEN PERMISSION.				SIZE B