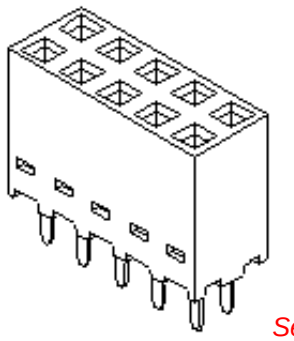
This document was generated on 05/24/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0901512220
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)



Series image - Reference only

General

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

Physical

Circuits (Loaded)	20
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	Gold
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)	15.2
Plating min: Mating (µm)	0.38
Plating min: Termination (µin)	120
Plating min: Termination (µm)	3
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

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

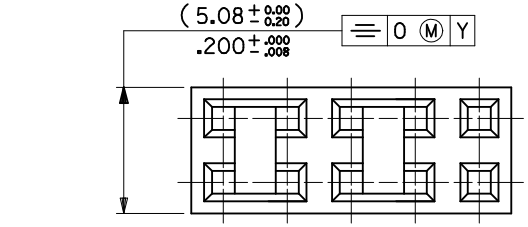
Please visit the Contact Us section for any non-product compliance questions.

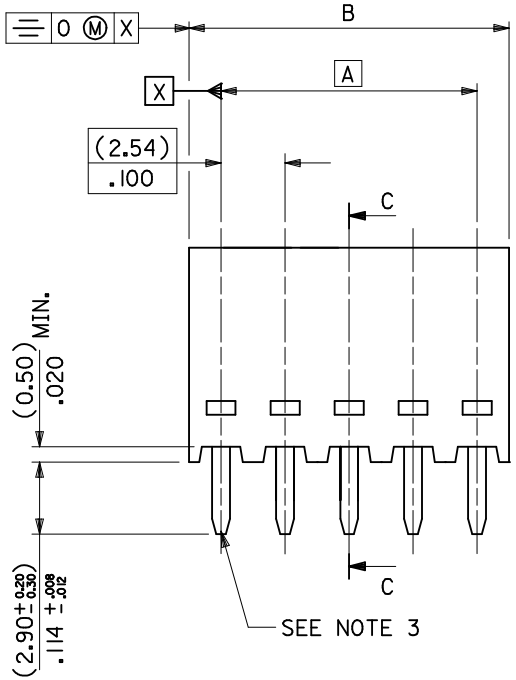
Search Parts in this Series
90151Series

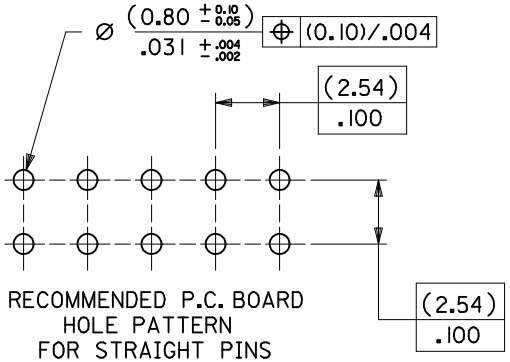
Mates With
0.64mm (.025") square pins

This document was generated on 05/24/2010

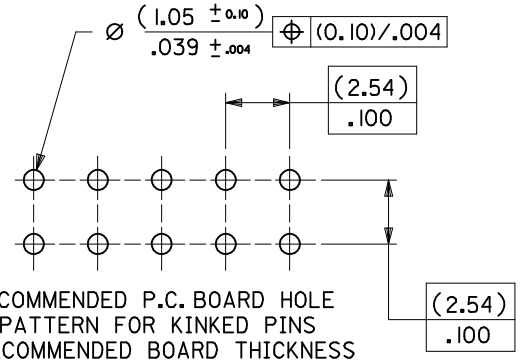
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



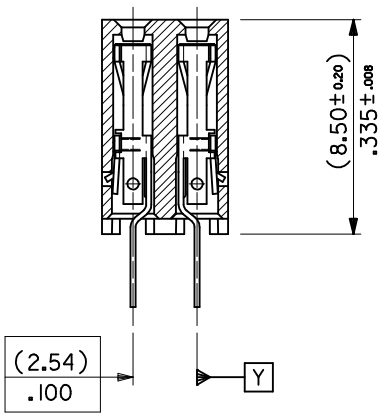




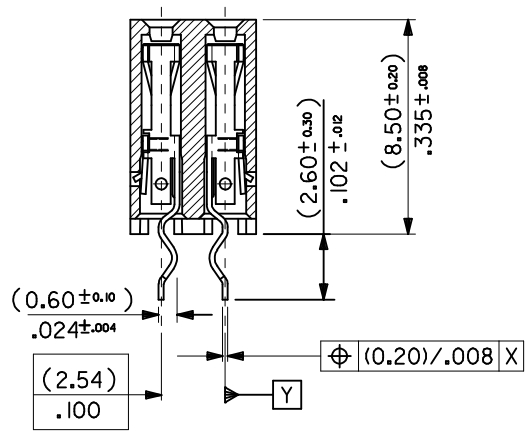
RECOMMENDED P.C. BOARD
HOLE PATTERN
FOR STRAIGHT PINS



RECOMMENDED P.C. BOARD HOLE
PATTERN FOR KINKED PINS
RECOMMENDED BOARD THICKNESS
(1.20 - 1.70) / .031 - .067



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
EC NO: E2009-0250 2008/12/08
DRWN: BMAGUIRE 2008/12/08
CH'KD: APPR: BMAGUIRE 2008/12/08
DESCRIPTION
AH
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

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
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: DB DATE: 21/07/86
CHECKED BY: DATE
APPROVED BY: DATE

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

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-90151
SHEET NO.: 1 OF 5

SIZE A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

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

PART NO. STRAIGHT PINS	PART NO. KINKED PINS	NO. OF CKTS.	DIM. "A"	DIM. "B" $(^{+0.00}_{-0.30})^{+.000}_{-.012}$	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 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-XXYY

- 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.

REV	DESCRIPTION	EC NO.	DRWN:	CH'K:	APPR:
AH	LEAD FREE CONVERSION NEW BORDER ADDED	E2004-0610	PSHEAHAN 06/01/2004		

QUALITY SYMBOLS
MAJOR =
CRITICAL (C) =

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 [X] mm [ ] INCH | THIRD ANGLE PROJECTION | DIMENSIONS: [ ] mm/INCH [ ] INCH/mm [ ] mm ONLY | SHT | REV | REVISE ON CAD ONLY

DRAWN BY & DATE: DB 14/ 7/87
CHECKED BY & DATE:
APPROVED BY & DATE:
CAD FILENAME: SA90151X2 DGN

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

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DRAWING NO.: SDA-90151
SHEET NO.: 2OF

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SIZE B

7132-1283