

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

**Part Number:** [0901522106](#)  
**Status:** **Active**  
**Overview:** [cgrid\\_sl\\_products](#)  
**Description:** 2.54mm (.100") Pitch C-Grid III™ PC Board Connector, Dual Row, Right Angle, Straight PCB Pins 1.0µm (40µ") Tin (Sn), 6 Circuits

**Documents:**

[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Drawing \(PDF\)](#)

**General**

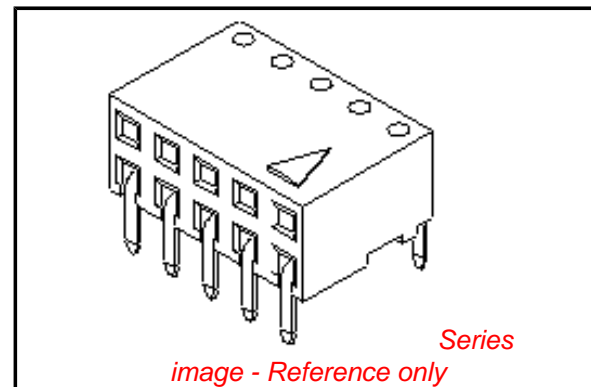
Product Family	PCB Receptacles
Series	<a href="#">90152</a>
Application	Board-to-Board
Overview	<a href="#">cgrid_sl_products</a>
Product Name	C-Grid III™

**Physical**

Circuits (Loaded)	6
Circuits (maximum)	6
Color - Resin	Black
Durability (mating cycles max)	30
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	Right Angle
PC Tail Length (in)	0.114 In
PC Tail Length (mm)	2.90 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.063 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
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	Yes
Polarized to PCB	No
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-55°C to +125°C
Termination Interface: Style	Through Hole

**Electrical**

Current - Maximum per Contact	3A
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**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC  
Contains SVHC: No**  
**Halogen-Free  
Status  
Not Reviewed**

**China RoHS**



**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**

[90152Series](#)

**Mates With**

[90122](#) , [90131](#)

Grounding to PCB  
Voltage - Maximum

No  
350V AC/DC

**Material Info**

**Reference - Drawing Numbers**

Sales Drawing

SDA-90152

This document was generated on 05/24/2010

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SEE CHART  
SDA-90152

PART NO.	NO. OF CKTS.	DIM. A		DIM. B $\begin{matrix} (+0.00 \\ -0.30 \\ +.000 \\ -.012 \end{matrix}$		NO. PER TUBE
90152-XX04	4	( 2.54 )	.100	( 5.08 )	.200	110
▲ ▲ 06	6	( 5.08 )	.200	( 7.62 )	.300	73
08	8	( 7.62 )	.300	( 10.16 )	.400	55
10	10	( 10.16 )	.400	( 12.70 )	.500	44
12	12	( 12.70 )	.500	( 15.24 )	.600	36
14	14	( 15.24 )	.600	( 17.78 )	.700	31
16	16	( 17.78 )	.700	( 20.32 )	.800	27
18	18	( 20.32 )	.800	( 22.86 )	.900	24
20	20	( 22.86 )	.900	( 25.40 )	1.000	22
22	22					20
24	24	( 27.94 )	1.100	( 30.48 )	1.200	18
26	26	( 30.48 )	1.200	( 33.02 )	1.300	16
28	28					14
30	30	( 35.56 )	1.400	( 38.10 )	1.500	14
32	32					13
34	34	( 40.64 )	1.600	( 43.18 )	1.700	12
36	36	( 43.18 )	1.700	( 45.72 )	1.800	12
38	38	( 45.72 )	1.800	( 48.26 )	1.900	11
40	40	( 48.26 )	1.900	( 50.80 )	2.000	11
42	42					10
44	44	( 53.34 )	2.100	( 55.88 )	2.200	10
46	46					10
48	48					9
50	50	( 60.96 )	2.400	( 63.50 )	2.500	8
52	52					8
54	54					8
56	56	( 68.58 )	2.700	( 71.12 )	2.800	7
58	58					7
60	60	( 73.66 )	2.900	( 76.20 )	3.000	7
▼ ▼ 62	62					6
90152-XX64	64	( 78.74 )	3.100	( 81.28 )	3.200	5

PLATING VERSION A

PRE-PLATED HOT DIP TIN  
1.0 TO 2.5 microns (.00004" TO .00010").

PLATING VERSION E

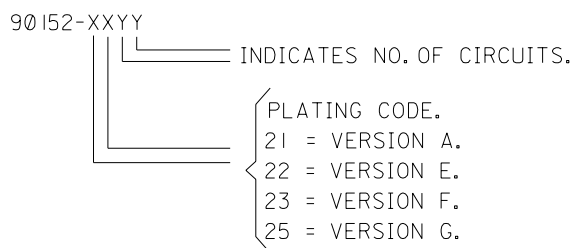
1.27 TO 1.78 microns (.00005" TO .00007") NICKEL  
OVERALL, 0.38 TO 0.64 microns (.000015" TO .000025")  
GOLD ON CONTACT AREA (OVER NICKEL).  
3 TO 5 microns (.00012" TO .00020") TIN  
ON SOLDER TAILS (OVER NICKEL).

PLATING VERSION F.

1.27 TO 1.78 microns (.00005" TO .00007") NICKEL  
OVERALL, 0.76 TO 1.0 microns (.00003" TO .00004")  
GOLD ON CONTACT AREA (OVER NICKEL).  
3 TO 5 microns (.00012" TO .00020") TIN  
ON SOLDER TAILS (OVER NICKEL).

PLATING VERSION G.

1.27 TO 1.78 microns (.00005" TO .00007") NICKEL  
OVERALL, 0.125 TO 0.20 microns (.000005" TO .0000079")  
GOLD ON CONTACT AREA (OVER NICKEL).  
3 TO 5 microns (.00012" TO .00020") TIN  
ON SOLDER TAILS (OVER NICKEL).



STANDARD PRODUCTS

FOR PREVIOUS DRAWING ISSUES SEE MRI.

LEAD FREE CONVERSION NEW BORDER ADDED EC NO. E2004-0610 DRWN: PSHEAHAN 08/01/2004 CHK: APPR:	QUALITY SYMBOLS MAJOR CRITICAL	GENERAL TOLERANCES: (UNLESS SPECIFIED)		SCALE 5:1	DESIGN UNITS <input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH	THIRD ANGLE PROJECTION <input checked="" type="checkbox"/>	DIMENSIONS: <input type="checkbox"/> mm <input type="checkbox"/> INCH <input type="checkbox"/> mm <input type="checkbox"/> INCH	SHT	REV
		4 PLACES ±0. ±.	3 PLACES ±0. ±.	2 PLACES ±0. ±.	1 PLACE ±0. ±.	ANGULAR: ± °	DRAWN BY & DATE DB 14/ 7/87		CHECKED BY & DATE
AD	REV	DESCRIPTION	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY & DATE	TITLE: C-GRID III DUAL ROW HORIZONTAL P.C. BOARD CONNECTOR		MOLEX INCORPORATED	
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.		CAD FILENAME 590152x2 DGN	MATERIAL NO. SEE CHART	DRAWING NO. SDA-90152	SHEET NO. 20F	
							SIZE B		