

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0901210124

Status:

Active

Overview:

cgrid_iii

Description:

2.54mm (.100") Pitch C-Grid III™ Header, Single Row, Right Angle, 4 Circuits, Tin (Sn) Plating

Documents:

3D Model

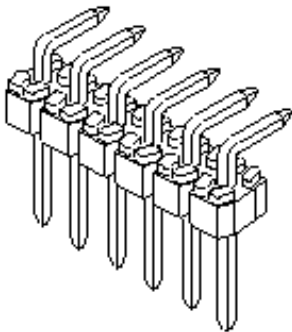
Drawing (PDF)

RoHS Certificate of Compliance (PDF)

General	
Product Family	PCB Headers
Series	90121
Application	Wire-to-Board
Overview	cgrid_iii
Product Name	C-Grid III™
Physical	
Breakaway	Yes
Circuits (Loaded)	4
Circuits (maximum)	4
Color - Resin	Black
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	None
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Polyester
Number of Rows	1
Orientation	Right Angle
PC Tail Length (in)	0.114 In
PC Tail Length (mm)	2.90 mm
PCB Locator	No
PCB Retention	None
Packaging Type	Bag
Pitch - Mating Interface (in)	0.100 In
Pitch - Mating Interface (mm)	2.54 mm
Plating min: Mating (µin)	160
Plating min: Mating (µm)	4.00
Plating min: Termination (µin)	120
Plating min: Termination (µm)	3
Polarized to Mating Part	No
Polarized to PCB	No
Shrouded	No
Stackable	No
Temperature Range - Operating	-55°C to +125°C
Termination Interface: Style	Through Hole

Electrical	
Current - Maximum per Contact	3A
Voltage - Maximum	350V

Solder Process Data



Series
image - Reference only

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
[90121Series](#)

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

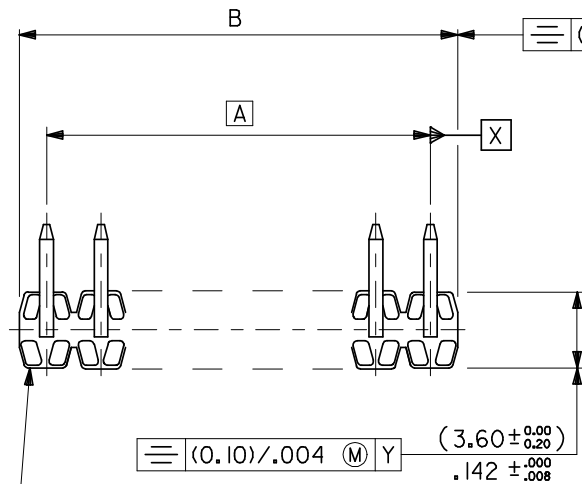
Material Info

Reference - Drawing Numbers

Sales Drawing	SDA-90121
---------------	-----------

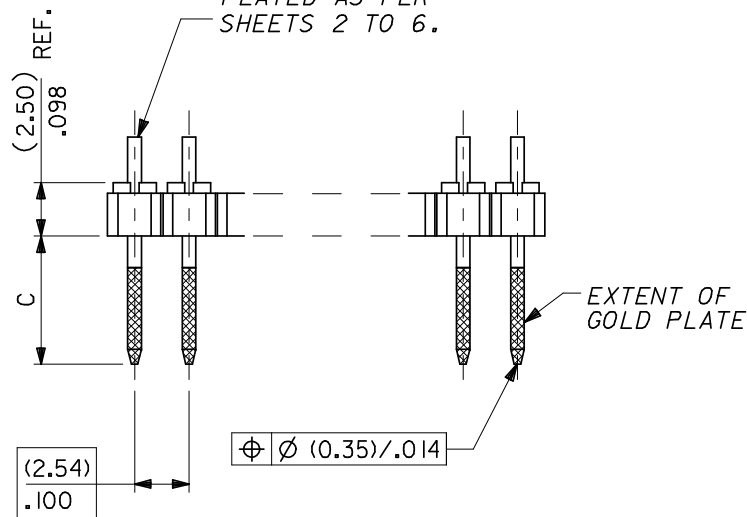
This document was generated on 05/26/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



WAFER: 15% GLASS FILLED POLYESTER
TO UL 94V-0.
COLOUR : BLACK.

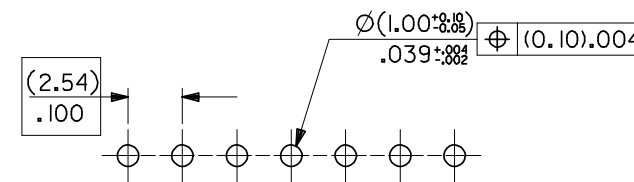
PINS: (0.635)/.025 SQ.
BRASS WIRE.
PLATED AS PER
SHEETS 2 TO 6.



CKT SIZE	DIM." A"		DIM." B" (± 0.20) $\pm .008$		CKT SIZE	DIM." A"		DIM." B" (± 0.20) $\pm .008$	
1X 1			(2.54)	.100	1X21	(50.80)	2.000	(53.34)	2.100
1X 2	(2.54)	.100	(5.08)	.200	1X22	(53.34)	2.100	(55.88)	2.200
1X 3	(5.08)	.200	(7.62)	.300	1X23	(55.88)	2.200	(58.42)	2.300
1X 4	(7.62)	.300	(10.16)	.400	1X24	(58.42)	2.300	(60.96)	2.400
1X 5	(10.16)	.400	(12.70)	.500	1X25	(60.96)	2.400	(63.50)	2.500
1X 6	(12.70)	.500	(15.24)	.600	1X26	(63.50)	2.500	(66.04)	2.600
1X 7	(15.24)	.600	(17.78)	.700	1X27	(66.04)	2.600	(68.58)	2.700
1X 8	(17.78)	.700	(20.32)	.800	1X28	(68.58)	2.700	(71.12)	2.800
1X 9	(20.32)	.800	(22.86)	.900	1X29	(71.12)	2.800	(73.66)	2.900
1X10	(22.86)	.900	(25.40)	1.000	1X30	(73.66)	2.900	(76.20)	3.000
1X11	(25.40)	1.000	(27.94)	1.100	1X31	(76.20)	3.000	(78.74)	3.100
1X12	(27.94)	1.100	(30.48)	1.200	1X32	(78.74)	3.100	(81.28)	3.200
1X13	(30.48)	1.200	(33.02)	1.300	1X33	(81.28)	3.200	(83.82)	3.300
1X14	(33.02)	1.300	(35.56)	1.400	1X34	(83.82)	3.300	(86.36)	3.400
1X15	(35.56)	1.400	(38.10)	1.500	1X35	(86.36)	3.400	(88.90)	3.500
1X16	(38.10)	1.500	(40.64)	1.600	1X36	(88.90)	3.500	(91.44)	3.600
1X17	(40.64)	1.600	(43.18)	1.700	1X37	(91.44)	3.600	(93.98)	3.700
1X18	(43.18)	1.700	(45.72)	1.800	1X38	(93.98)	3.700	(96.52)	3.800
1X19	(45.72)	1.800	(48.26)	1.900	1X39	(96.52)	3.800	(99.06)	3.900
1X20	(48.26)	1.900	(50.80)	2.000	1X40	(99.06)	3.900	(101.60)	4.000

NOTES

1. FOR ASSY NUMBERS WITH FINISH OPTIONS AND DIM'S C & D SEE SHEETS 2 TO 6.
2. PRODUCT SPEC: PS-99020-0001
3. RECOMMENDED PCB THICKNESS 1.6mm



RECOMMENDED P.C. BOARD HOLE PATTERN

Corrected view size EC NO: E2008-0479 DRWN:LK/ERNAN 2008/03/12 CHKD: 2008/03/18 APPR:BMAGUIRE 2008/03/18			DESCRIPTION REV	QUALITY SYMBOLS ▽=0 □=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
K					mm	INCH	DRAWN BY DB	DATE	TITLE C-GRID III SINGLE ROW RIGHT ANGLE HEADER						
		4 PLACES			± ---	± ---	CHECKED BY	DATE							
		3 PLACES			± ---	± ---									
		2 PLACES			± ---	± ---	APPROVED BY		DATE		MOLEX MOLEX INCORPORATED				
		1 PLACE			± ---	± ---									
		ANGULAR ±1/2°			MATERIAL NO.		DOCUMENT NO.					SHEET NO.			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE CHART		SDA-90121					1 OF 6			
					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	PART NO. SEE CHART DWG. NO. SDA-90121	CIRCUIT SIZE	PLATING TYPE A		PLATING TYPE E		PLATING TYPE F						F
			PART NO.	PART NO.	PART NO.								
E	DIM C (±0.20) (6.75) ±.008 .266	1 X 1	90121-0121	90121-0761	90121-0921					E			
		1 X 2	↑ -0122	↑ -0762	↑ -0922								
		1 X 3	-0123	-0763	-0923								
		1 X 4	-0124	-0764	-0924								
		1 X 5	-0125	-0765	-0925								
		1 X 6	-0126	-0766	-0926								
		1 X 7	-0127	-0767	-0927								
		1 X 8	-0128	-0768	-0928								
		1 X 9	-0129	-0769	-0929								
		1 X 10	-0130	-0770	-0930								
D	DIM D (±0.25) (2.90) ±.010 .114	1 X 11	-0131	-0771	-0931					D			
		1 X 12	-0132	-0772	-0932								
		1 X 13	-0133	-0773	-0933								
		1 X 14	-0134	-0774	-0934								
		1 X 15	-0135	-0775	-0935								
		1 X 16	-0136	-0776	-0936								
		1 X 17	-0137	-0777	-0937								
		1 X 18	-0138	-0778	-0938								
		1 X 19	-0139	-0779	-0939								
		1 X 20	-0140	-0780	-0940								
C		1 X 21	-0141	-0781	-0941					C			
		1 X 22	-0142	-0782	-0942								
		1 X 23	-0143	-0783	-0943								
		1 X 24	-0144	-0784	-0944								
		1 X 25	-0145	-0785	-0945								
		1 X 26	-0146	-0786	-0946								
		1 X 27	-0147	-0787	-0947								
		1 X 28	-0148	-0788	-0948								
		1 X 29	-0149	-0789	-0949								
		1 X 30	-0150	-0790	-0950								
B		1 X 31	-0151	-0791	-0951					B			
		1 X 32	-0152	-0792	-0952								
		1 X 33	-0153	-0793	-0953								
		1 X 34	-0154	-0794	-0954								
		1 X 35	-0155	-0795	-0955								
		1 X 36	-0156	-0796	-0956								
		1 X 37	-0157	-0797	-0957								
		1 X 38	-0158	-0798	-0958								
		1 X 39	↓ -0159	↓ -0799	↓ -0959								
		1 X 40	90121-0160	90121-0800	90121-0960								
A	NOTES: FOR PLATING VARIATIONS SEE ENG.STD. SDES-99000-0003.		FOR PREVIOUS DRAWING ISSUES SEE MRI.		SEE SHEET I.		REVISIONS		REVISE ONLY ON CAD SYSTEM		SHL	REV.	A
	STANDARD PRODUCTS				LTR		DIMENSIONS SHOWN (METRIC) INCH UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1° INCH (METRIC) 3 PLACE ± . --- 2 PLACE ± . --- ± --- 1 PLACE ± --- DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS DESIGN DIMENSION (PRIMARY) ☒ (MM) ☐ IN. EQUIVALENT DIMENSION (SECONDARY) ☐ (MM) ☒ IN.		DRWG BY DB CHK'D BY APP'D BY SCALE		CAD/CAM FILENAME SA90121X2 DGN THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION TITLE C-GRID III SINGLE ROW RIGHT ANGLE HEADER MOLEX MOLEX EUROPE SHEET NO. DATE 20F 16/ 7/87 PART NO. DWG NO. SIZE SEE CHART SDA-90121 B		
7132-1283		10	9	8	7	6	5	4	3	2	1		