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Part Number: [0901210142](#)
Status: **Active**
Description: 2.54mm (.100") Pitch C-Grid III™ Header, Single Row, Right Angle, 22 Circuits, Tin (Sn) Plating

Documents:

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

General

Product Family PCB Headers
Series [90121](#)
Application Wire-to-Board
Product Name C-Grid III™

Physical

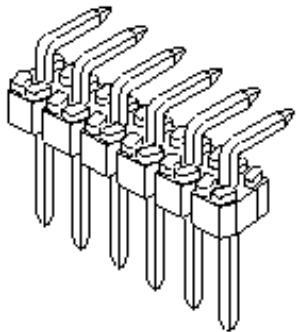
Breakaway Yes
Circuits (Loaded) 22
Circuits (maximum) 22
Color - Resin Black
First Mate / Last Break No
Glow-Wire Compliant No
Guide to Mating Part No
Keying to Mating Part None
Lock to Mating Part None
Material - Metal Brass
Material - Plating Mating Tin
Material - Plating Termination Tin
Material - 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

Duration at Max. Process Temperature (seconds) 5
Lead-free Process Capability Wave Capable (TH only)



Series
image - Reference only

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Contains SVHC: No
Halogen-Free
Status

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](#)

Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

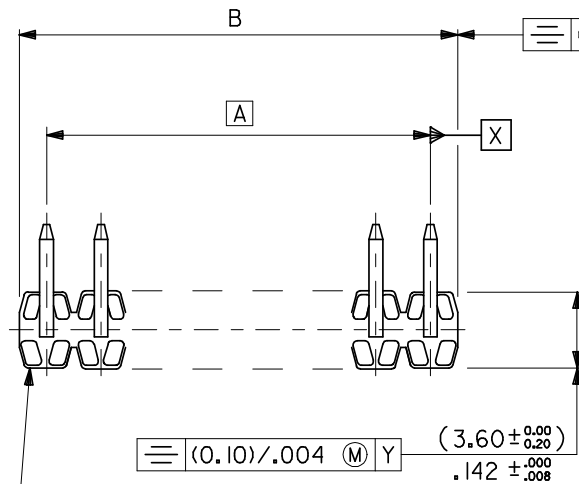
Material Info

Reference - Drawing Numbers

Sales Drawing	SDA-90121
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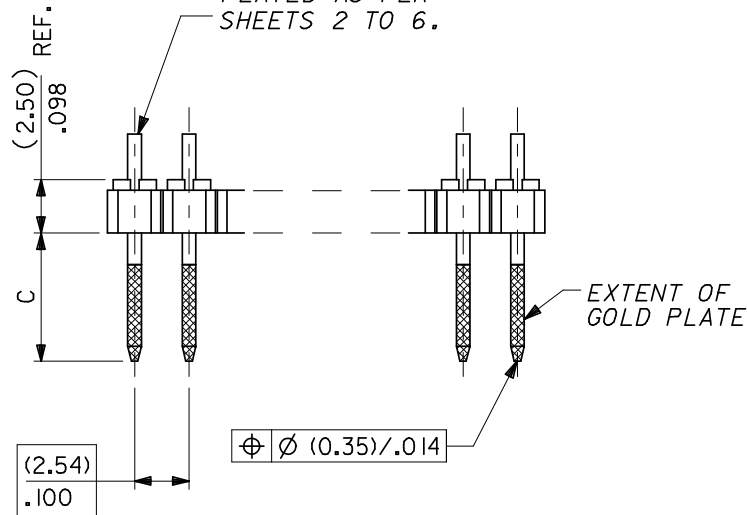
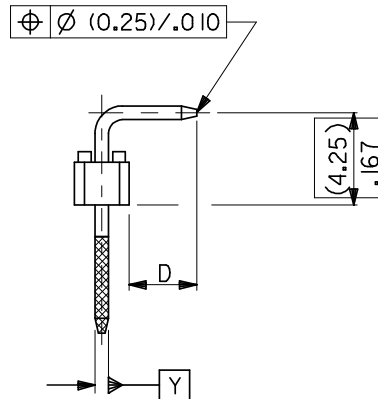
This document was generated on 04/21/2010

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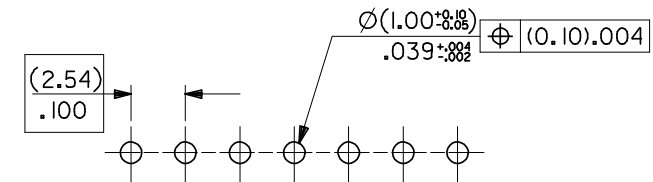
WAFER: 15% GLASS FILLED POLYESTER
TO UL 94V-0.
COLOUR : BLACK.

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



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				QUALITY SYMBOLS ▽=0 C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
DESCRIPTION REV	K	4 PLACES	± ---		± ---	DRAWN BY	DATE	TITLE C-GRID III SINGLE ROW RIGHT ANGLE HEADER						
		3 PLACES	± ---		± ---	CHECKED BY	DATE							
		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									

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

		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) (±.008) (6.75) .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) (±.010) (2.90) .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.		STANDARD PRODUCTS		FOR PREVIOUS DRAWING ISSUES SEE MRI.		SEE SHEET I.		REVISIONS		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		REVISE ONLY ON CAD SYSTEM SHL REV. 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													