

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0901522114

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), 14 Circuits

Documents:

3D Model

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family

Series

Application

Overview

Product Name

PCB Receptacles

90152

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

14

Black

No

No

None

No

Phosphor Bronze

Tin

Tin

Polyester

2

Right Angle

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

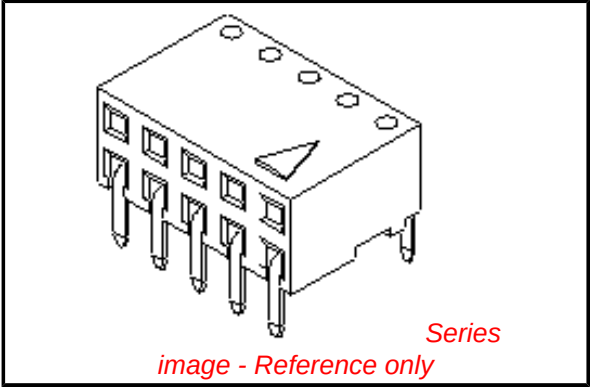
350V

Solder Process Data

Lead-free Process Capability

Wave Capable (TH only)

Material Info



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

90152Series

Mates With

90122 , 90131

Reference - Drawing Numbers

Sales Drawing

SDA-90152

This document was generated on 05/24/2010

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F

E

D

C

B

A

F

E

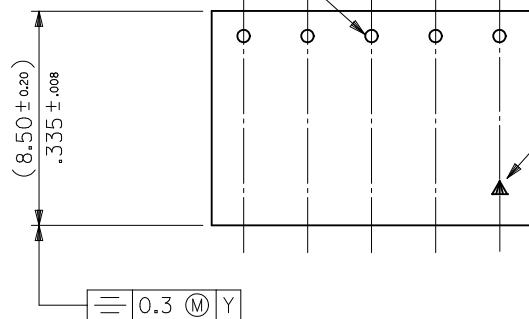
D

C

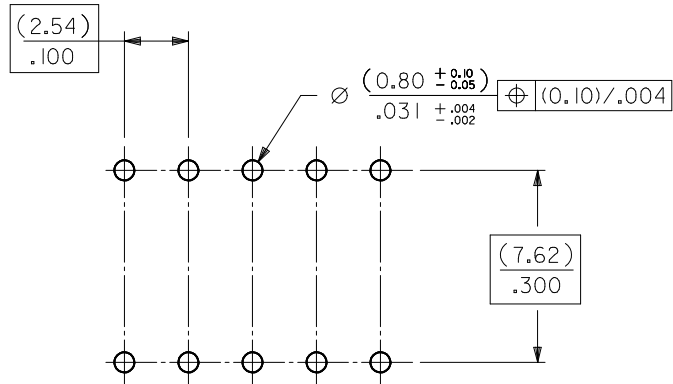
B

A

TERMINAL RETENTION FEATURE



SEE NOTE 4

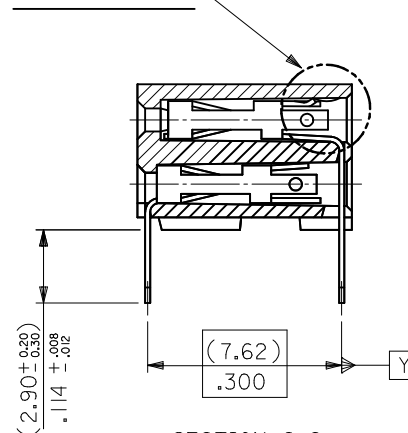


RECOMMENDED P.C. BOARD
HOLE PATTERN

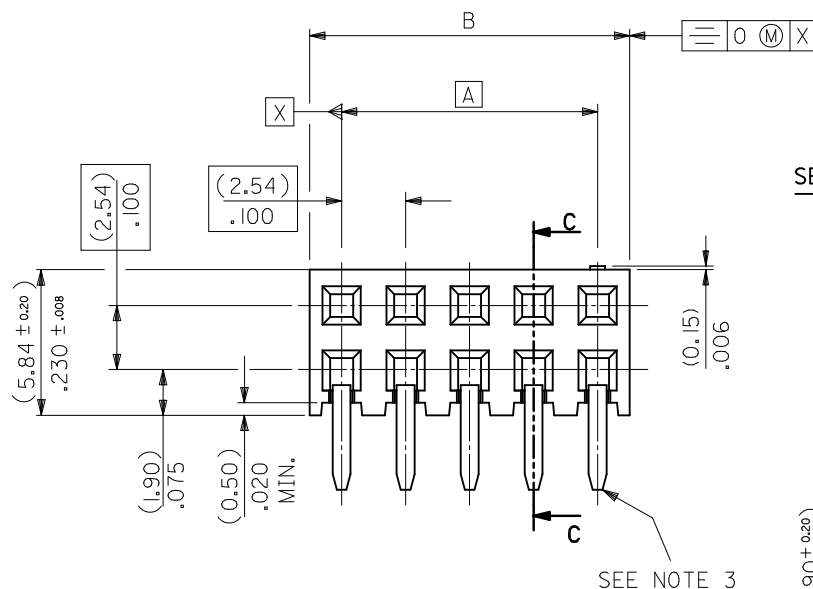
NOTES

- 1) CONTACT-PLATED PHOSPHOR BRONZE.
- 2) HOUSING-15% GLASS FILLED POLYESTER. COLOUR-BLACK.
- 3) COMPATABLE WITH PCB HOLE PATTERN.
- 4) THIS MARK INDICATES CIRCUIT NO.1.
- 5) 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) PRODUCT SPECIFICATION: PS-99020-0001
- 7) RECOMMENDED PCB THICKNESS 1.6MM

SEE DETAIL "A"

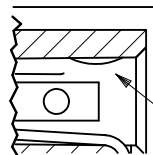


SECTION C-C



SEE NOTE 3

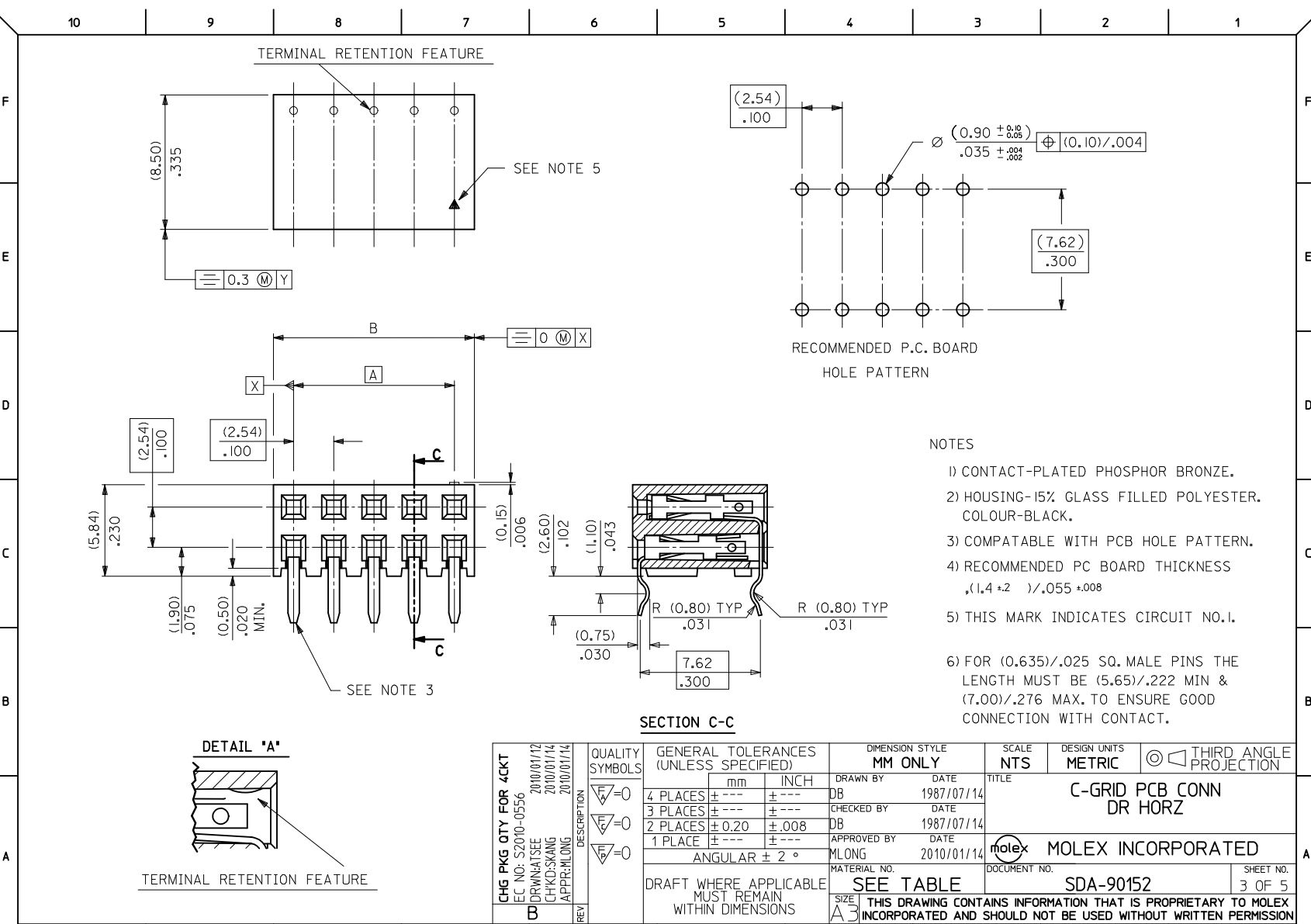
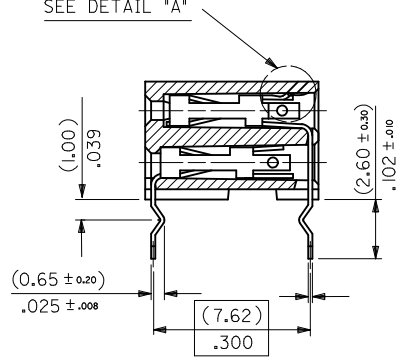
DETAIL "A"



TERMINAL RETENTION FEATURE

CHG PKG QTY FOR 4CKT			DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
EC NO: S2010-0556		2010/01/12			2010/01/14	2010/01/14	mm	INCH	DRAWN BY	DATE		TITLE C-GRID PCB CONN DR HORZ	
DRWN:ATSEE							4 PLACES	± ---	± ---	DB			1987/07/14
CHKD:SKANG							3 PLACES	± ---	± ---	CHECKED BY			DATE
APPR:MLONG					2 PLACES	± 0.20	± .008	DB	1987/07/14				
					1 PLACE	± ---	± ---	APPROVED BY	DATE	 MOLEX INCORPORATED			
					ANGULAR ± 2 °		MLONG	2010/01/14					
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE		DOCUMENT NO. SDA-90152		SHEET NO. 1 OF 5		
B		REV			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.	CKT	DIM. A		DIM. B (^{+0.00} _{-0.30} ^{+0.00} _{-0.12})		PCS/ TUBE	PLATING VERSION A														
	90152-XX04	4	(2.54) .100		(5.08) .200		109	PRE-PLATED HOT DIP TIN 1.0 TO 2.5 microns (.00004" TO .00010").														
	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															
E	22	22					20	PLATING VERSION E														
	24	24	(27.94) 1.100		(30.48) 1.200		18	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).														
	26	26	(30.48) 1.200		(33.02) 1.300		16															
	28	28					14															
D	30	30	(35.56) 1.400		(38.10) 1.500		14	PLATING VERSION F														
	32	32					13	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).														
	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															
C	46	46					10	PLATING VERSION G														
	48	48					9	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).														
	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															
B	62	62					6															
	90152-XX64	64	(78.74) 3.100		(81.28) 3.200		5															
A	STANDARD PRODUCTS							90152 - X X Y Y INDICATES NO. OF CIRCUITS PLATING CODE. 21 = VERSION A 22 = VERSION E 23 = VERSION F 25 = VERSION G														
	CHG PKG QTY FOR 4CKT EC NO: S2010-0556 DRWN:ATSEE 2010/01/12 CHKD:SKANG 2010/01/14 APPR:MLONG 2010/01/14 B							QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION							
								$\nabla_F=0$ $\nabla_C=0$ $\nabla_P=0$		mm	INCH	DRAWN BY DB	DATE 1987/07/14	C-GRID PCB CONN DR HORZ								
									4 PLACES	$\pm$ ---	$\pm$ ---	CHECKED BY DB	DATE 1987/07/14									
									3 PLACES	$\pm$ ---	$\pm$ ---	APPROVED BY MLONG	DATE 2010/01/14									
									2 PLACES	$\pm$ 0.20	$\pm$.008	MOLEX INCORPORATED										
									1 PLACE	$\pm$ ---	$\pm$ ---							DOCUMENT NO.				
								ANGULAR $\pm$ 2 °		MATERIAL NO. SEE TABLE		SDA-90152		SHEET NO. 2 OF 5								
								DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
								fb_frame_A3_P_AM_T Rev. F 2009/06/18							9	8	7	6	5	4	3	2



- NOTES
- 1) CONTACT-PLATED PHOSPHOR BRONZE.
 - 2) HOUSING-15% GLASS FILLED POLYESTER, COLOUR-BLACK.
 - 3) COMPATABLE WITH PCB HOLE PATTERN.
 - 4) RECOMMENDED PC BOARD THICKNESS
(1.4 ± .2) / .055 ± .008
 - 5) THIS MARK INDICATES CIRCUIT NO.1.
 - 6) FOR (0.635) / .025 SO. MALE PINS THE LENGTH MUST BE (5.65) / .222 MIN & (7.00) / .276 MAX. TO ENSURE GOOD CONNECTION WITH CONTACT.

CHG PKG QTY FOR 4CKT EC NO: S2010-0556 DRWNAT/SEE 2010/01/12 CHKD:SKANG 2010/01/14 APPR:M LONG 2010/01/14 REV	QUALITY SYMBOLS
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	10		9		8		7		6		5		4		3		2		1
	PART NO.	CKT	DIM. A		DIM. B (+0.00 -0.30 +0.00 -0.12)		PCS/ TUBE												
F	90152-XX04	4	(2.54)	.100	(5.08)	.200	109	PLATING VERSION A											
	06	6	(5.08)	.200	(7.62)	.300	73	PRE-PLATED HOT DIP TIN 1.0 TO 2.5 microns (.00004" TO .00010").											
	08	8	(7.62)	.300	(10.16)	.400	55	PLATING VERSION E											
	10	10	(10.16)	.400	(12.70)	.500	44	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).											
	12	12	(12.70)	.500	(15.24)	.600	36	PLATING VERSION F.											
	14	14	(15.24)	.600	(17.78)	.700	31	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).											
E	16	16	(17.78)	.700	(20.32)	.800	27	PLATING VERSION G.											
	18	18	(20.32)	.800	(22.86)	.900	24	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).											
	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												
D	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												
C	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												
B	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												
A	90152-XX64	64	(78.74)	3.100	(81.28)	3.200	5												

90152-XXYY

PART NUMBER	CKT. SIZE	PIN VOID	KINKED PINS	NO. PER TUBE
90152-6234	2 X 17	21	NONE	12
90152-5242	2 X 21	5	NONE	10
90152-7130	2 X 15	NONE	1,2 & 29,30	14

NOTES

- 1) FOR DIMENSIONS SEE SHEET 1.
2) THIS MARK INDICATES CIRCUIT NO.1.
3) SOLDER TAIL OF TERMINAL IN VOIDED CAVITY MUST BE CROPPED AS SHOWN OR TERMINAL REMOVED.

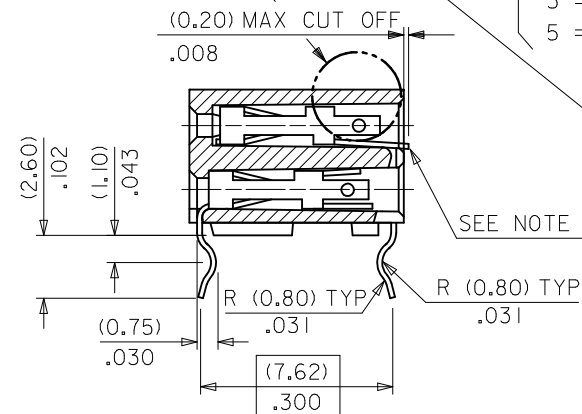
90152-XXYY

INDICATES NO. OF CIRCUITS.

PLATING CODE.
1 = VERSION A.
2 = VERSION E.
3 = VERSION F.
5 = VERSION G.

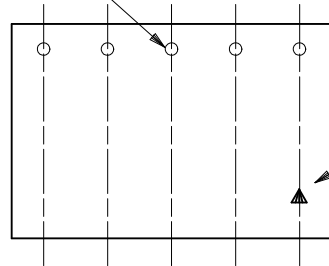
OPTIONS
2 = REGULAR
3 = KINKED
5 = VOIDS
6 = KINKS & VOIDS
7 = SELECTIVE KINKS

SEE DETAIL "A"

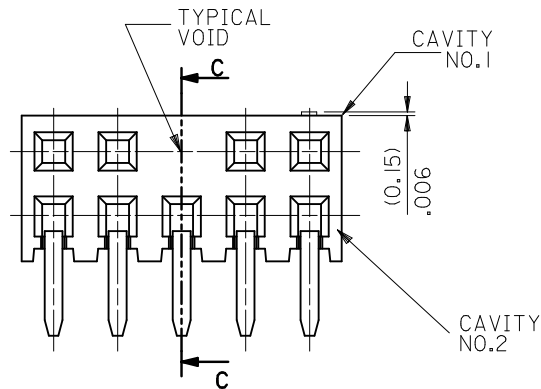


SECTION C-C

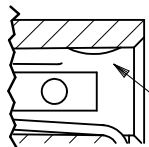
TERMINAL RETENTION FEATURE



SEE NOTE 2.



DETAIL "A"



TERMINAL RETENTION FEATURE

CHG PKG QTY FOR 4CKT		DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
EC NO: S2010-0556	REV					MM ONLY		NTS	METRIC		
2010/01/12	B	DRW:WATSEE CHKD:SKANG APPR:MLONG	$F_A=0$	4 PLACES	$\pm ---$	$\pm ---$	DRAWN BY	DATE	C-GRID PCB CONN DR HORZ		
2010/01/12			$F_C=0$	3 PLACES	$\pm ---$	$\pm ---$	CHECKED BY	DATE			
2010/01/14			$F_D=0$	2 PLACES	± 0.20	$\pm .008$	DB	1987/07/14			
2010/01/14				1 PLACE	$\pm ---$	$\pm ---$	APPROVED BY	DATE			
				ANGULAR $\pm 2^\circ$		MLONG	2010/01/14	MOLEX INCORPORATED			
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.	SHEET NO.		
					SEE TABLE		SDA-90152		5 OF 5		
					SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

SEE CHART

PART NO.

SDA-90152

DWG. NO.

PART NO.	NO.OF CKTS.	DIM. A		DIM. B ^{(+0.00 0.30 + .000 -.012}		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

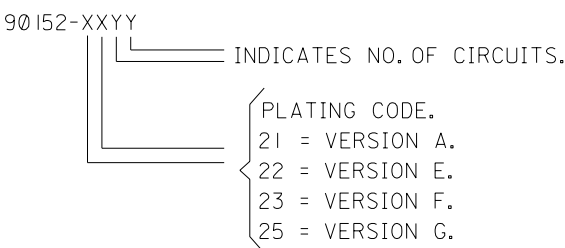
1.27 TO 1.78 microns (.00005" TO .00007") NICKEL
OVERALL, 0.38 TO 0.64 microns (.000015" TO .000025")
GOLD ON CONTACT AREA (OVER NICKEL).
3 TO 5 microns (.00012" TO .00020") TIN
ON SOLDER TAILS (OVER NICKEL).

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 DRAWN: PSHEAHAN 08/01/2004 CHK: APPR:		QUALITY SYMBOLS MAJOR CRITICAL	GENERAL TOLERANCES: (UNLESS SPECIFIED)		SCALE 5:1	DESIGN UNITS ☒ mm ☐ INCH	THIRD ANGLE PROJECTION	DIMENSIONS: ☐ mm ☐ INCH ☐ mm ONLY			SHT	REV		
AD			4 PLACES ±0.	±.	DRAWN BY & DATE DB 14/ 7/87	CHECKED BY & DATE		TITLE: C-GRID III DUAL ROW HORIZONTAL P.C. BOARD CONNECTOR			REVISE ON CAD ONLY			
REV		DESCRIPTION	3 PLACES ±0.	±.	APPROVED BY & DATE		MATERIAL NO. SEE CHART	MOLEX INCORPORATED			SHEET NO. 20F			
			2 PLACES ±0.	±.	CAD FILENAME			DRAWING NO. SDA-90152			SIZE B			
			1 PLACE ±0.	±.	ANGULAR: ± 0		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.							
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS											