

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0901522108

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), 8 Circuits

Documents:

3D Model

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

General

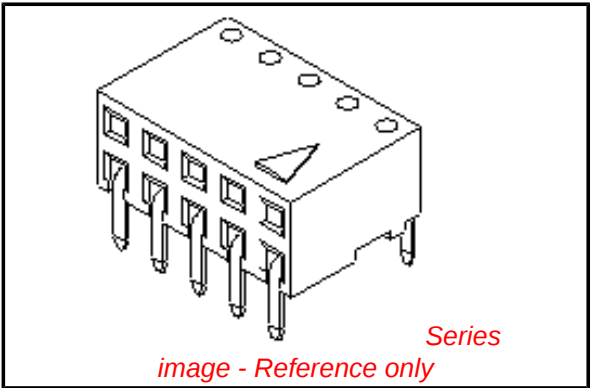
Product Family	PCB Receptacles
Series	90152
Application	Board-to-Board
Overview	cgrid_sl_products
Product Name	C-Grid III™

Physical

Circuits (Loaded)	8
Circuits (maximum)	8
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
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	No
Voltage - Maximum	350V AC/DC
Solder Process Data	
Lead-free Process Capability	Wave Capable (TH only)
Material Info	
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

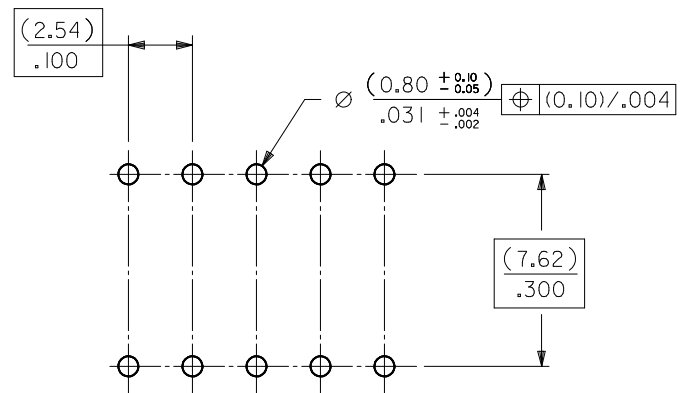
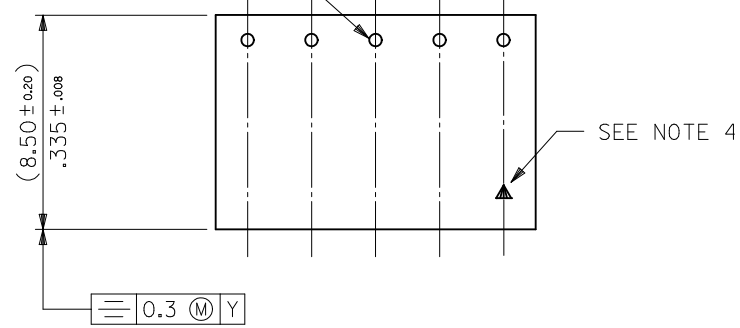
D

C

B

A

TERMINAL RETENTION FEATURE

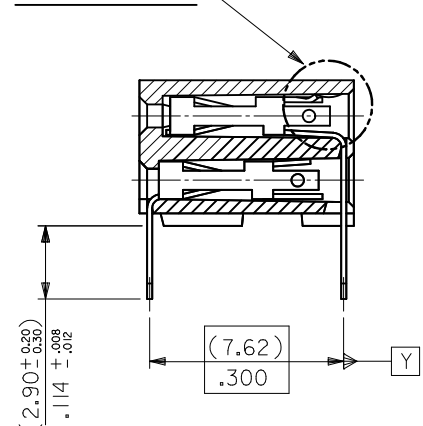


RECOMMENDED P.C. BOARD
HOLE PATTERN

NOTES

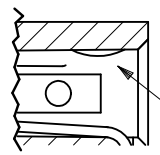
- 1) CONTACT-PLATED PHOSPHOR BRONZE.
- 2) HOUSING-15% GLASS FILLED POLYESTER. COLOUR-BLACK.
- 3) COMPATABLE WITH PCB HOLE PATTERN.
- 4) THIS MARK INDICATES CIRCUIT NO.1.
- 5) FOR $(0.635) \pm .025$ SQ. MALE PINS THE LENGTH MUST BE $(5.65) \pm .222$ MIN & $(7.00) \pm .276$ MAX. TO ENSURE GOOD CONNECTION WITH CONTACT.
- 6) PRODUCT SPECIFICATION: PS-99020-0001
- 7) RECOMMENDED PCB THICKNESS 1.6MM

SEE DETAIL "A"



SECTION C-C

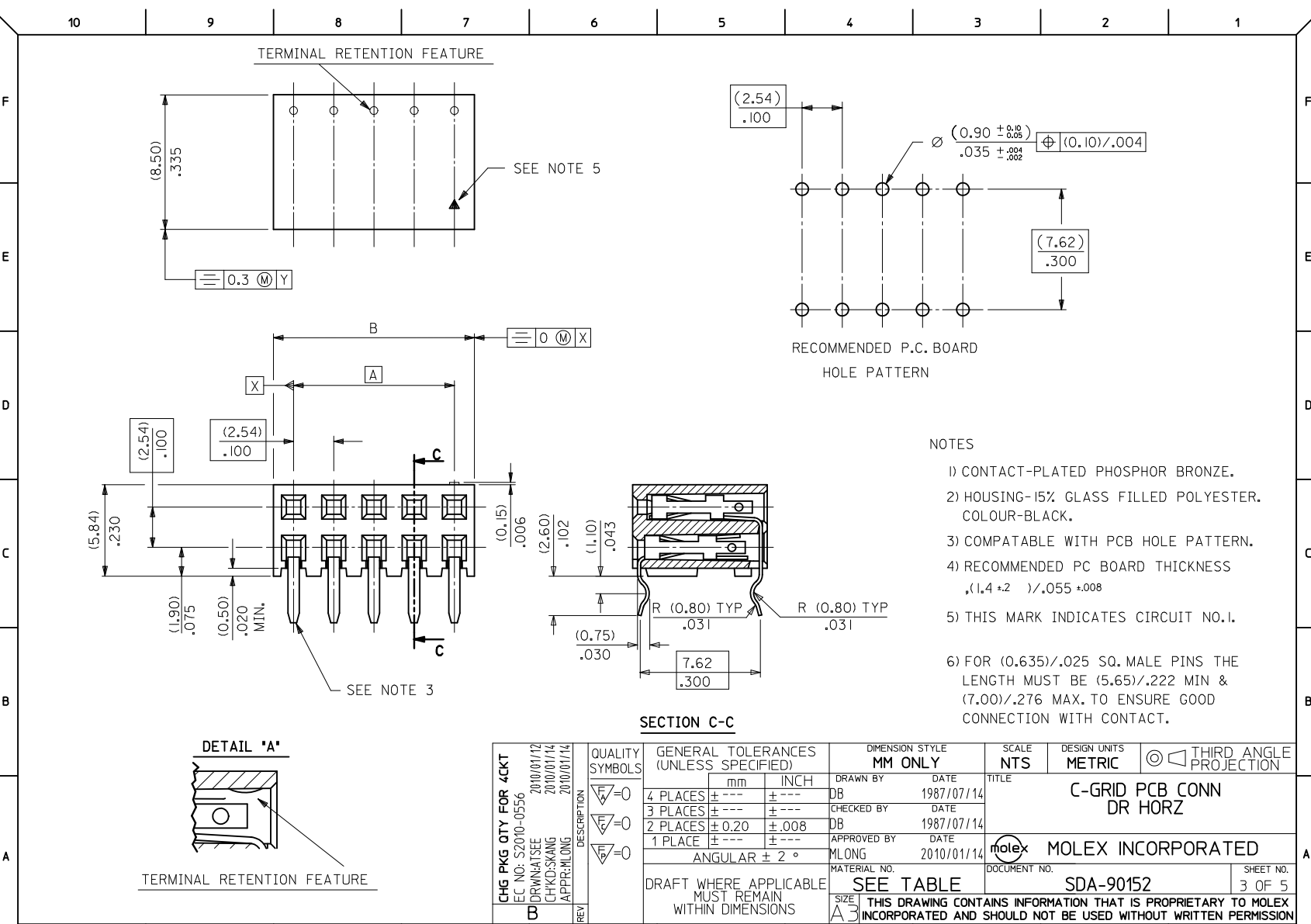
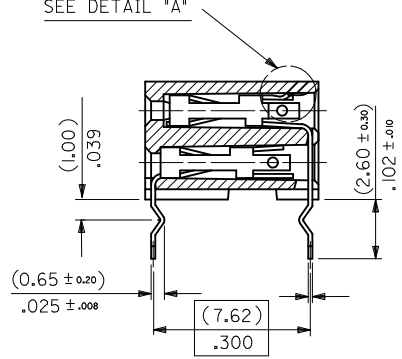
DETAIL "A"



TERMINAL RETENTION FEATURE

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

	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 PRE-PLATED HOT DIP TIN 1.0 TO 2.5 microns (.00004" TO .00010").												
	90152-XX04	4	(2.54)	.100	(5.08)	.200	109													
	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 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).												
	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													
D	30	30	(35.56)	1.400	(38.10)	1.500	14	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).												
	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													
C	50	50	(60.96)	2.400	(63.50)	2.500	8	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).												
	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 - X X Y Y INDICATES NO. OF CIRCUITS PLATING CODE. 21 = VERSION A 22 = VERSION E 23 = VERSION F 25 = VERSION G												
	90152-XX64	64	(78.74)	3.100	(81.28)	3.200	5													
A	STANDARD PRODUCTS																			
tb_frame_A3_P_AM_T Rev. F 2009/06/18																				



- 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	DESCRIPTION	QUALITY SYMBOLS F=0 F=0 F=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
			mm	INCH	DRAWN BY DB	DATE 1987/07/14	TITLE C-GRID PCB CONN DR HORZ					
			4 PLACES	± ---	± ---	CHECKED BY DB						DATE 1987/07/14
			3 PLACES	± ---	± ---	APPROVED BY M LONG	DATE 2010/01/14	molex MOLEX INCORPORATED				
			2 PLACES	± 0.20	± .008	MATERIAL NO. SEE TABLE						
1 PLACE		± ---	± ---	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				

	10		9		8		7		6		5		4		3		2		1
	PART NO.		CKT		DIM. A		DIM. B												
F	90152-XX04		4		(2.54) .100		(5.08) .200												
	06		6		(5.08) .200		(7.62) .300												
	08		8		(7.62) .300		(10.16) .400												
	10		10		(10.16) .400		(12.70) .500												
	12		12		(12.70) .500		(15.24) .600												
E	14		14		(15.24) .600		(17.78) .700												
	16		16		(17.78) .700		(20.32) .800												
	18		18		(20.32) .800		(22.86) .900												
	20		20		(22.86) .900		(25.40) 1.000												
	22		22																
D	24		24		(27.94) 1.100		(30.48) 1.200												
	26		26		(30.48) 1.200		(33.02) 1.300												
	28		28																
	30		30		(35.56) 1.400		(38.10) 1.500												
	32		32																
C	34		34		(40.64) 1.600		(43.18) 1.700												
	36		36		(43.18) 1.700		(45.72) 1.800												
	38		38		(45.72) 1.800		(48.26) 1.900												
	40		40		(48.26) 1.900		(50.80) 2.000												
	42		42																
B	44		44		(53.34) 2.100		(55.88) 2.200												
	46		46																
	48		48																
	50		50		(60.96) 2.400		(63.50) 2.500												
	52		52																
A	54		54																
	56		56		(68.58) 2.700		(71.12) 2.800												
	58		58																
	60		60		(73.66) 2.900		(76.20) 3.000												
	62		62																
	90152-XX64		64		(78.74) 3.100		(81.28) 3.200												
90152-XXXX INDICATES NO. OF CIRCUITS. PLATING CODE. 31 = VERSION A. 32 = VERSION E. 33 = VERSION F. 35 = 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 DESCRIPTION REV QUALITY SYMBOLS F=0 F=0 F=0 GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± ± 3 PLACES ± ± 2 PLACES ±0.20 ±.008 1 PLACE ± ± ANGULAR ± 2 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS DIMENSION STYLE MM ONLY DRAWN BY DATE DB 1987/07/14 CHECKED BY DATE DB 1987/07/14 APPROVED BY DATE MLONG 2010/01/14 MATERIAL NO. SEE TABLE SCALE NTS TITLE C-GRID PCB CONN DR HORZ MOLEX MOLEX INCORPORATED DOCUMENT NO. SDA-90152 SHEET NO. 4 OF 5 DESIGN UNITS METRIC THIRD ANGLE PROJECTION																			
tb_frame_A3_P_AM_T Rev. F 2009/06/18																			

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.

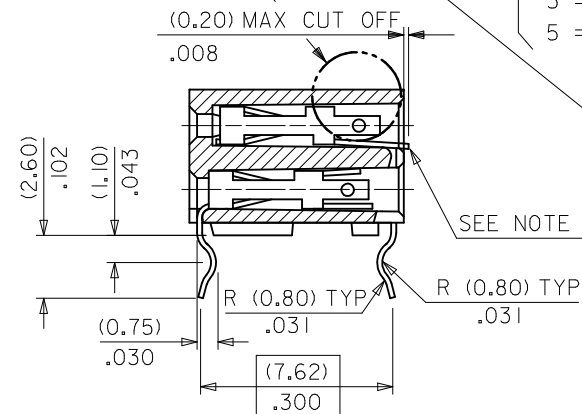
PLATING CODE.

- 1 = VERSION A.
2 = VERSION E.
3 = VERSION F.
5 = VERSION G.

OPTIONS

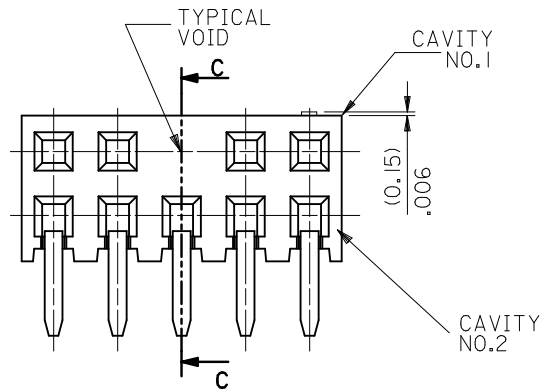
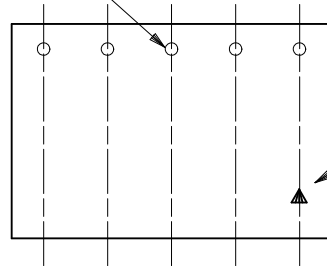
- 2 = REGULAR
3 = KINKED
5 = VOIDS
6 = KINKS & VOIDS
7 = SELECTIVE KINKS

SEE DETAIL "A"

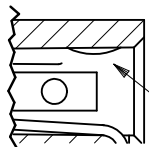


SECTION C-C

TERMINAL RETENTION FEATURE



DETAIL "A"



TERMINAL RETENTION FEATURE

CHG PKG QTY FOR 4CKT				2010/01/12		2010/01/14		DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		 THIRD ANGLE PROJECTION	
EC NO: S2010-0556				DRWN:ATSEE		CHKD:SKANG				APPR:MLONG		MM ONLY		NTS		METRIC			
B				REV		F _A =0				mm		INCH		DRAWN BY		DATE		TITLE	
						4 PLACES				± ---		± ---		DB		1987/07/14			
						3 PLACES				± ---		± ---		CHECKED BY		DATE			
						2 PLACES				± 0.20		± .008		DB		1987/07/14			
						1 PLACE				± ---		± ---		APPROVED BY		DATE			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				REV		F _C =0		ANGULAR ± 2 °		MLONG		2010/01/14		 MOLEX INCORPORATED		DOCUMENT NO.		SHEET NO. 5 OF 5	
						F _P =0		MATERIAL NO.		SEE TABLE									
						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

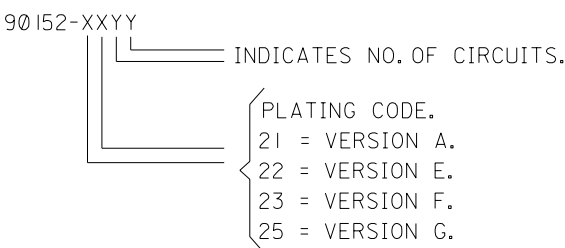
1.27 TO 1.78 microns (.00005" TO .00007") NICKEL
OVERALL, 0.38 TO 0.64 microns (.000015" TO .000025")
GOLD ON CONTACT AREA (OVER NICKEL).
3 TO 5 microns (.00012" TO .00020") TIN
ON SOLDER TAILS (OVER NICKEL).

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	REV		4 PLACES	±0.	±.	DRAWN BY & DATE DB 14/ 7/87		TITLE: C-GRID III DUAL ROW HORIZONTAL P.C. BOARD CONNECTOR			REVISE ON CAD ONLY		
			3 PLACES	±0.	±.	CHECKED BY & DATE							
			2 PLACES	±0.	±.	APPROVED BY & DATE		MOLEX INCORPORATED					
		ANGULAR: ± 0		1 PLACE	±0.	±.	CAD FILENAME	S90152x2 DGN	MATERIAL NO. SEE CHART	DRAWING NO. SDA-90152	SHEET NO. 20F		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.				SIZE B	