

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0901522206

Status:

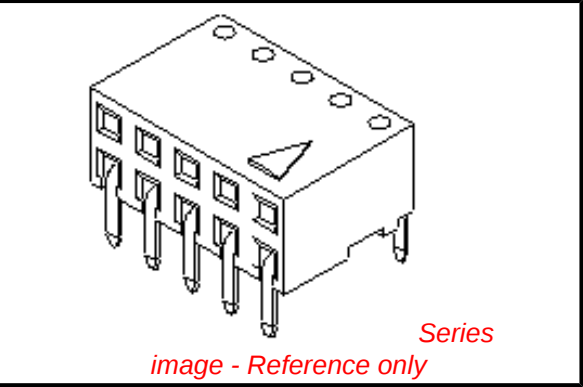
Active

Overview:

cgrid_sl_products

Description:

2.54mm (.100") Pitch C-Grid III™ PC Board Connector, Dual Row, Right Angle, Straight PCB Pins 0.38μm (15μ") Gold (Au) Selective, 6 Circuits



Documents:

3D Model

RoHS Certificate of Compliance (PDF)

Drawing (PDF)

General	
Product Family	PCB Receptacles
Series	90152
Application	Board-to-Board
Overview	cgrid_sl_products
Product Name	C-Grid III™
Physical	
Circuits (Loaded)	6
Circuits (maximum)	6
Color - Resin	Black
Durability (mating cycles max)	100
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	Gold
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)	15.2
Plating min: Mating (μm)	0.38
Plating min: Termination (μin)	120
Plating min: Termination (μm)	3
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

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

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

F

E

D

C

B

A

F

E

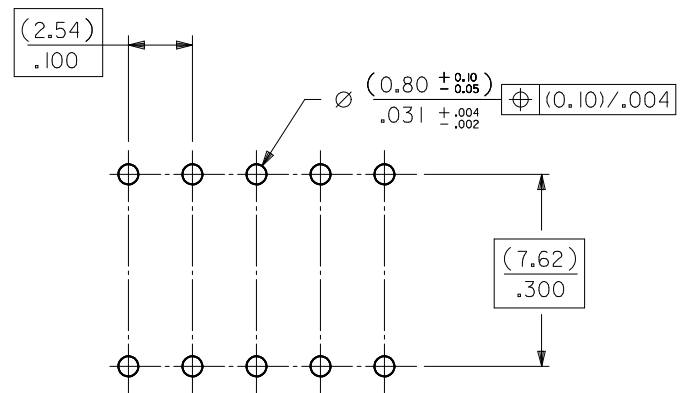
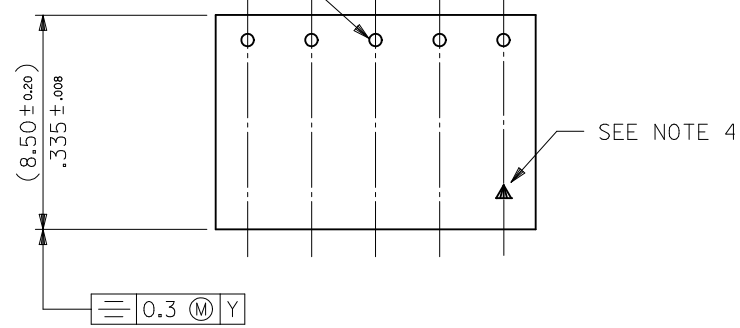
D

C

B

A

TERMINAL RETENTION FEATURE

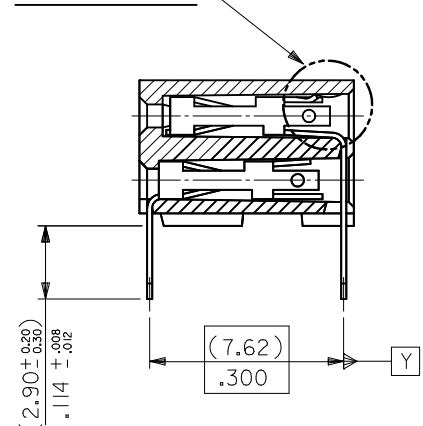


RECOMMENDED P.C. BOARD
HOLE PATTERN

NOTES

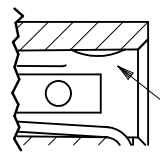
- 1) CONTACT-PLATED PHOSPHOR BRONZE.
- 2) HOUSING-15% GLASS FILLED POLYESTER. COLOUR-BLACK.
- 3) COMPATABLE WITH PCB HOLE PATTERN.
- 4) THIS MARK INDICATES CIRCUIT NO.1.
- 5) FOR $(0.635) / .025$ SQ. MALE PINS THE LENGTH MUST BE $(5.65) / .222$ MIN & $(7.00) / .276$ MAX. TO ENSURE GOOD CONNECTION WITH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

SEE DETAIL "A"



SECTION C-C

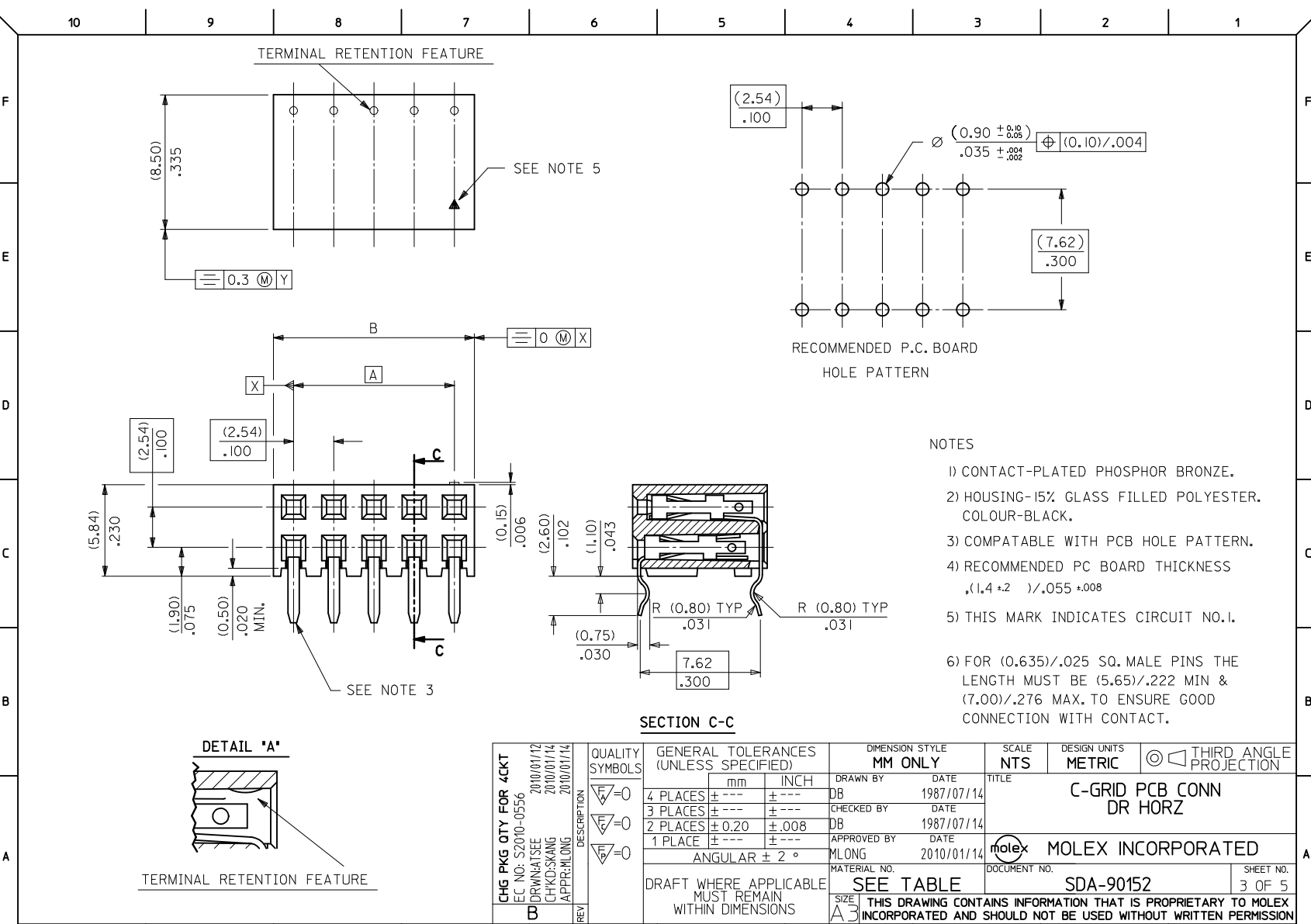
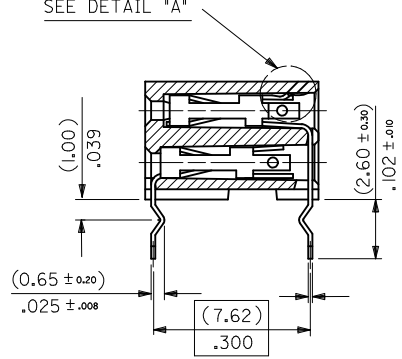
DETAIL "A"



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=0 C=0 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						
			4 PLACES ± ---			± ---	DB 1987/07/14							
			3 PLACES ± ---			± ---	CHECKED BY DATE	MOLEX INCORPORATED						
			2 PLACES ± 0.20			± .008	DB 1987/07/14							
			1 PLACE ± ---	± ---	APPROVED BY DATE	MATERIAL NO. DOCUMENT NO.								
			ANGULAR ± 2 °		MLONG 2010/01/14								SDA-90152	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE								
													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").												F
	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).												E
	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).												D
	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													
C	46	46					10	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).												C
	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													
B	62	62					6	90152 - X X Y Y <												

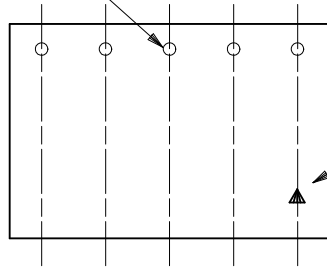


- NOTES
- 1) CONTACT-PLATED PHOSPHOR BRONZE.
 - 2) HOUSING-15% GLASS FILLED POLYESTER, COLOUR-BLACK.
 - 3) COMPATABLE WITH PCB HOLE PATTERN.
 - 4) RECOMMENDED PC BOARD THICKNESS
(1.4 ± .2) / .055 ± .008
 - 5) THIS MARK INDICATES CIRCUIT NO.1.
 - 6) FOR (0.635) / .025 SO. MALE PINS THE LENGTH MUST BE (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							DATE
			3 PLACES	± ---	± ---	DB	1987/07/14	APPROVED BY					
			2 PLACES	± 0.20	± .008	M LONG	2010/01/14	DOCUMENT NO.					
			ANGULAR ± 2 °		MATERIAL NO.		SHEET NO.						
			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						
					SEE TABLE		SDA-90152						
							MOLEX MOLEX INCORPORATED						

	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												
	08	8	(7.62)	.300	(10.16)	.400	55	1.0 TO 2.5 microns (.00004" TO .00010").												
	10	10	(10.16)	.400	(12.70)	.500	44	PLATING VERSION E												
	12	12	(12.70)	.500	(15.24)	.600	36	1.27 TO 1.78 microns (.00005" TO .00007") NICKEL												
E	14	14	(15.24)	.600	(17.78)	.700	31	OVERALL, 0.38 TO 0.64 microns (.000015" TO .000025")												
	16	16	(17.78)	.700	(20.32)	.800	27	GOLD ON CONTACT AREA (OVER NICKEL).												
	18	18	(20.32)	.800	(22.86)	.900	24	3 TO 5 microns (.00012" TO .00020") TIN												
	20	20	(22.86)	.900	(25.40)	1.000	22	ON SOLDER TAILS (OVER NICKEL).												
	22	22					20	PLATING VERSION F.												
D	24	24	(27.94)	1.100	(30.48)	1.200	18	1.27 TO 1.78 microns (.00005" TO .00007") NICKEL												
	26	26	(30.48)	1.200	(33.02)	1.300	16	OVERALL, 0.76 TO 1.0 microns (.00003" TO .00004")												
	28	28					14	GOLD ON CONTACT AREA (OVER NICKEL).												
	30	30	(35.56)	1.400	(38.10)	1.500	14	3 TO 5 microns (.00012" TO .00020") TIN												
	32	32					13	ON SOLDER TAILS (OVER NICKEL).												
C	34	34	(40.64)	1.600	(43.18)	1.700	12	PLATING VERSION G.												
	36	36	(43.18)	1.700	(45.72)	1.800	12	1.27 TO 1.78 microns (.00005" TO .00007") NICKEL												
	38	38	(45.72)	1.800	(48.26)	1.900	11	OVERALL, 0.125 TO 0.20 microns (.000005" TO .0000079")												
	40	40	(48.26)	1.900	(50.80)	2.000	11	GOLD ON CONTACT AREA (OVER NICKEL).												
	42	42					10	3 TO 5 microns (.00012" TO .00020") TIN												
B	44	44	(53.34)	2.100	(55.88)	2.200	10	ON SOLDER TAILS (OVER NICKEL).												
	46	46					10	90152-XXXX INDICATES NO. OF CIRCUITS. PLATING CODE. 31 = VERSION A. 32 = VERSION E. 33 = VERSION F. 35 = VERSION G.												
	48	48					9													
	50	50	(60.96)	2.400	(63.50)	2.500	8													
	52	52					8													
A	54	54					8	C-GRID PCB CONN												
	56	56	(68.58)	2.700	(71.12)	2.800	7	DR HORZ												
	58	58					7	MOLEX INCORPORATED												
	60	60	(73.66)	2.900	(76.20)	3.000	7	SDA-90152												
	62	62					6	SHEET NO. 4 OF 5												
	90152-XX64	64	(78.74)	3.100	(81.28)	3.200	5	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
CHG PKG QTY FOR 4CKT EC NO: S2010-0556 DRWN:ATSEE 2010/01/12 CHKD:SKANG 2010/01/14 APPR:MLONG 2010/01/14								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 °		DIMENSION STYLE MM ONLY DRAWN BY DATE CHECKED BY DATE APPROVED BY DATE		SCALE NTS TITLE C-GRID PCB CONN DR HORZ		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION			
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	1										

TERMINAL RETENTION FEATURE



SEE NOTE 2.

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.

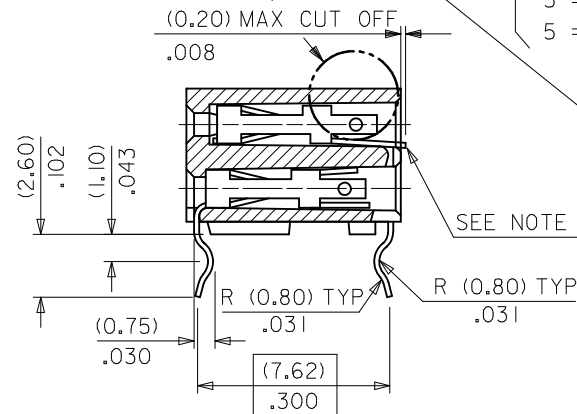
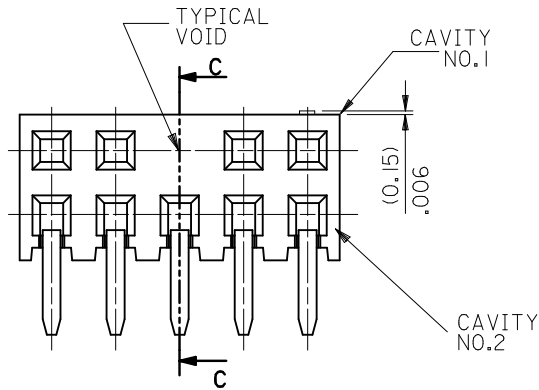
PLATING CODE.

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

OPTIONS

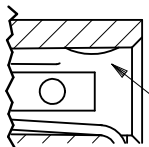
- 2 = REGULAR
- 3 = KINKED
- 5 = VOIDS
- 6 = KINKS & VOIDS
- 7 = SELECTIVE KINKS

SEE DETAIL "A"



SECTION C-C

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				2010/01/12		2010/01/14				mm				INCH				MM ONLY		NTS		METRIC			
DRWN:ATSEE				2010/01/12		2010/01/14				4 PLACES ± --- ± ---				DRAWN BY				DATE		TITLE					
CHKD:SKANG				2010/01/12		2010/01/14				3 PLACES ± --- ± ---				CHECKED BY				DATE							
APPR:MLONG				2010/01/12		2010/01/14				2 PLACES ± 0.20 ± .008				DB				1987/07/14							
										1 PLACE ± --- ± ---				APPROVED BY				DATE							
										ANGULAR ± 2 °				MLONG				2010/01/14							
										DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO.				DOCUMENT NO.							
														SEE TABLE				SDA-90152							
														SHEET NO.				5 OF 5							
B				REV								SIZE				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).

90152-XXXX

INDICATES NO.OF CIRCUITS.

PLATING CODE.
21 = VERSION A.
22 = VERSION E.
23 = VERSION F.
25 = VERSION G.

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	
			3 PLACES ±0.	±.	APPROVED BY & DATE		MATERIAL NO. SEE CHART	MOLEX INCORPORATED				
			2 PLACES ±0.	±.	CAD FILENAME			DRAWING NO. SDA-90152			SHEET NO. 20F	
			1 PLACE ±0.	±.	ANGULAR: ± 0		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.		SIZE B			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									