

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0901522304

Status:

Active

Overview:

cgrid_sl_products

Description:

2.54mm (.100") Pitch C-Grid III™ PC Board Connector, Dual Row, Right Angle, Straight PCB Pins 0.76µm (29µ") Gold (Au) Selective, 4 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)

Circuits (maximum)

Color - Resin

Durability (mating cycles max)

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)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Plating min: Termination (µin)

Plating min: Termination (µm)

Polarized to Mating Part

Polarized to PCB

Stackable

Surface Mount Compatible (SMC)

Temperature Range - Operating

Termination Interface: Style

4

4

Black

500

No

No

None

No

Phosphor Bronze

Gold

Tin

Polyester

2

Right Angle

0.114 In

2.90 mm

No

None

0.063 In

1.60 mm

Tube

0.100 In

2.54 mm

0.100 In

2.54 mm

30.4

0.76

120

3

Yes

No

No

No

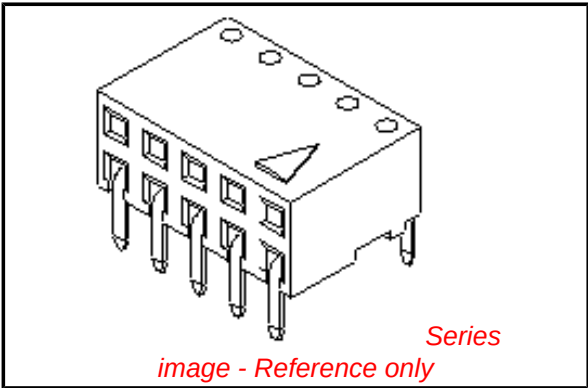
-55°C to +125°C

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
Voltage - Maximum

No
350V AC/DC

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

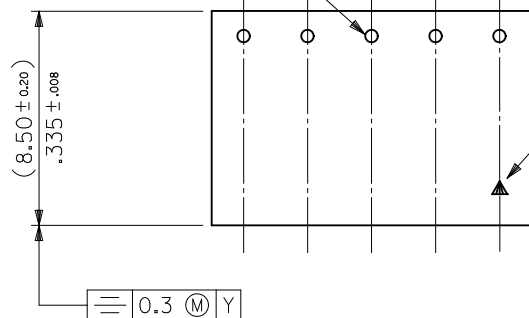
D

C

B

A

TERMINAL RETENTION FEATURE



SEE NOTE 4

(2.54)
.100

$\varnothing (0.80 \pm 0.10)$
 $.031 \pm .002$

$\varnothing (0.10) / .004$

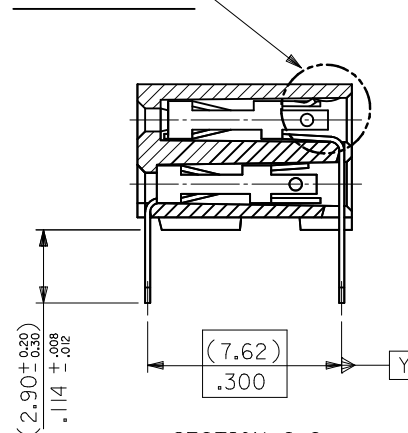
(7.62)
.300

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

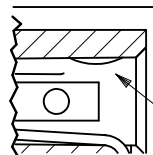
SEE DETAIL "A"



SECTION C-C

SEE NOTE 3

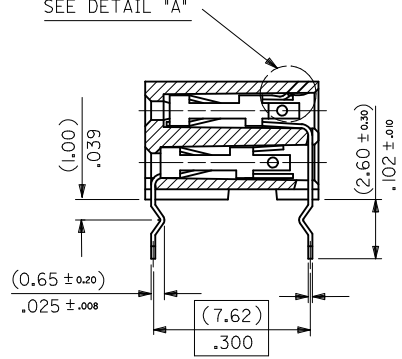
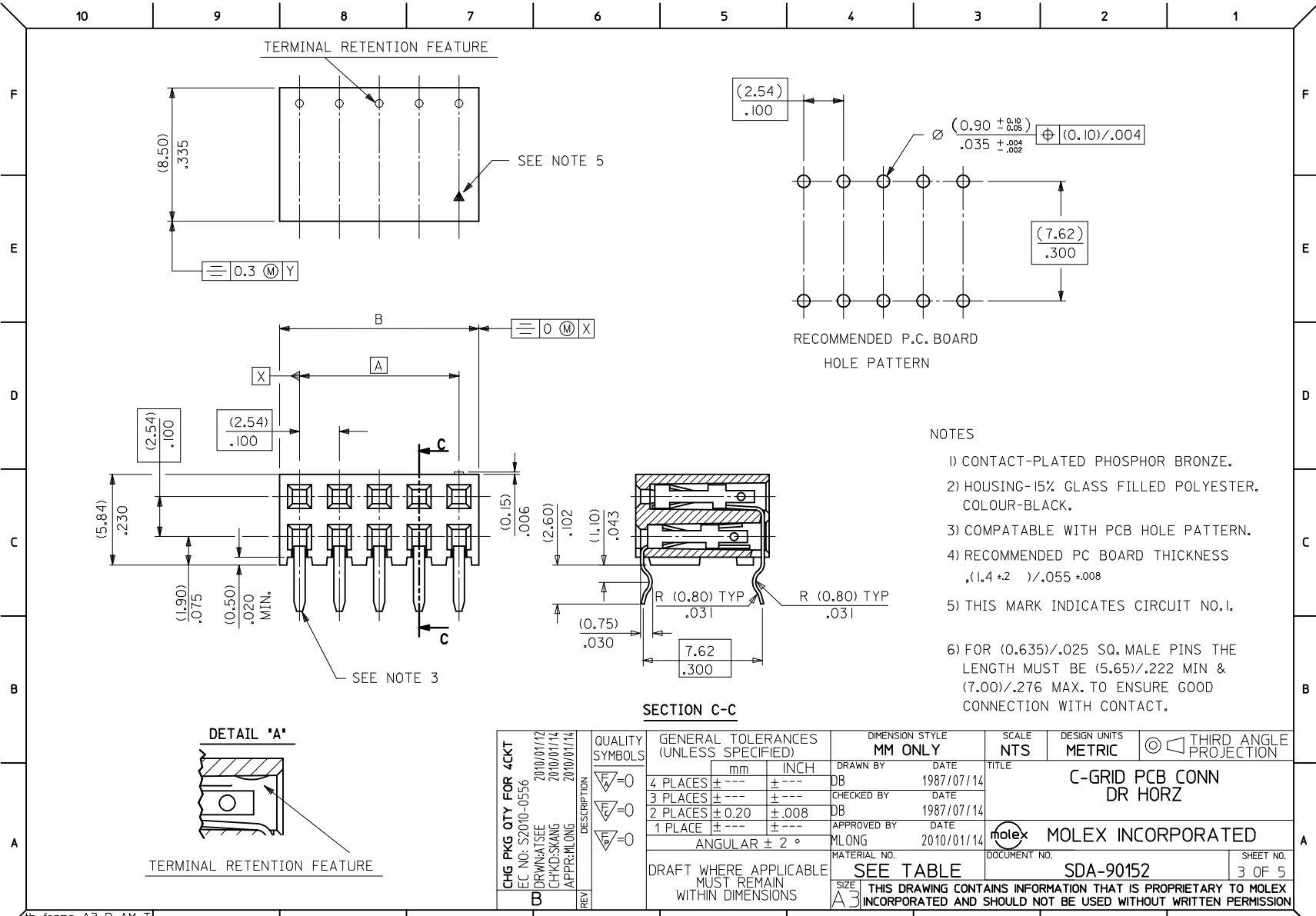
DETAIL "A"



TERMINAL RETENTION FEATURE

CHG PKG QTY FOR 4CKT EC NO: S2010-0556 DRWN:ATSEE 2010/01/12 CHKD:SKANG 2010/01/14 APPR:MLONG 2010/01/14	DESCRIPTION REV	QUALITY SYMBOLS <div><div><div><div></div></div><div><div></div></div></div><div><div><div></div></div><div><div></div></div></div><div><div><div></div></div><div><div></div></div></div></div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	<div><div></div><div></div></div> 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	DOCUMENT NO. SDA-90152			
			ANGULAR ± 2 °		MLONG	2010/01/14					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		SHEET NO. 1 OF 5				
					SEE TABLE						
					SIZE A3						
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											

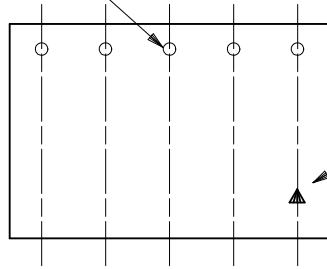
	10		9		8		7		6		5		4		3		2		1		
F	PART NO.	CKT	DIM. A		DIM. B (+0.00 -0.30 +0.00 -0.12)		PCS/ TUBE		PLATING VERSION A PRE-PLATED HOT DIP TIN 1.0 TO 2.5 microns (.00004" TO .00010").												
	90152-XX04	4	(2.54)	.100	(5.08)	.200	109														
	06	6	(5.08)	.200	(7.62)	.300	73														
	08	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-XX64	64	(78.74)	3.100	(81.28)	3.200	5														
A	STANDARD PRODUCTS																				
<div>CHG PKG QTY FOR 4CKT EC NO: S2010-0556 DRWN:ATSE 2010/01/12 CHKD:SKANG 2010/01/14 APPR:MLONG 2010/01/14</div>								<div>QUALITY SYMBOLS ▽F=0 ▽E=0 ▽A=0</div>		<div>GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± .008 1 PLACE ± --- ± --- ANGULAR ± 2 °</div>		<div>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</div>		<div>SCALE NTS</div>		<div>DESIGN UNITS METRIC</div>		<div>THIRD ANGLE PROJECTION</div>		<div>C-GRID PCB CONN DR HORZ</div>	
<div>B</div>								<div>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</div>		<div>SIZE A3</div>		<div>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</div>									
tb_frame_A3_P_AM_T Rev. F 2009/06/18		9		8		7		6		5		4		3		2		1			



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 ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY	DATE	TITLE		
			4 PLACES	± ---	± ---	DB	1987/07/14	C-GRID PCB CONN DR HORZ		
			3 PLACES	± ---	± ---	CHECKED BY	DATE			
			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. SEE TABLE		DOCUMENT NO. SDA-90152		SHEET NO. 3 OF 5	
					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 (^{+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												
	48	48					9	INDICATES NO. OF CIRCUITS.												
	50	50	(60.96)	2.400	(63.50)	2.500	8	PLATING CODE.												
	52	52					8	31 = VERSION A.												
A	54	54					8	32 = VERSION E.												
	56	56	(68.58)	2.700	(71.12)	2.800	7	33 = VERSION F.												
	58	58					7	35 = VERSION G.												
	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													

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.

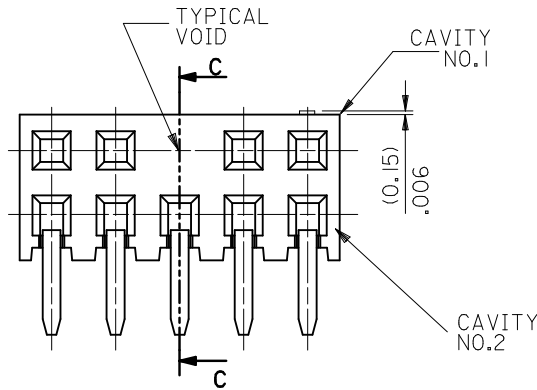
PLATING CODE.

- 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"



CAVITY NO.1

CAVITY NO.2

(0.20) MAX CUT OFF
.008

(2.60) .102
(1.10) .043
(0.75) .030

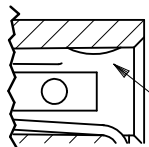
R (0.80) TYP
.031

(7.62) .300

SEE NOTE 3

SECTION C-C

DETAIL "A"



TERMINAL RETENTION FEATURE

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

SEE CHART

PART NO.

DWG. NO.

SDA-90152

F

E

D

C

B

A

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			
							DRAWN BY & DATE DB 14/ 7/87			REVISE ON CAD ONLY				
AD	REV	DESCRIPTION	4 PLACES ±0.	±.	CHECKED BY & DATE	APPROVED BY & DATE	TITLE: C-GRID III DUAL ROW HORIZONTAL P.C. BOARD CONNECTOR							
			3 PLACES ±0.	±.										
			2 PLACES ±0.	±.			MOLEX INCORPORATED							
			1 PLACE ±0.	±.										
ANGULAR: ± 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			