

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0901522110

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), 10 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

10

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

Duration at Max. Process Temperature (seconds)

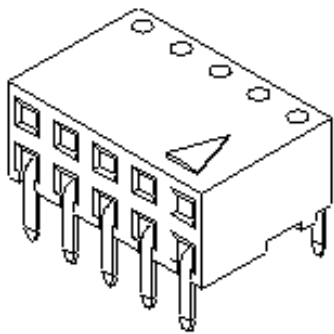
Lead-free Process Capability

Max. Cycles at Max. Process Temperature

5

Wave Capable (TH only)

1



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
90152Series

Mates With
90122 , 90131

Process Temperature max. C	230
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

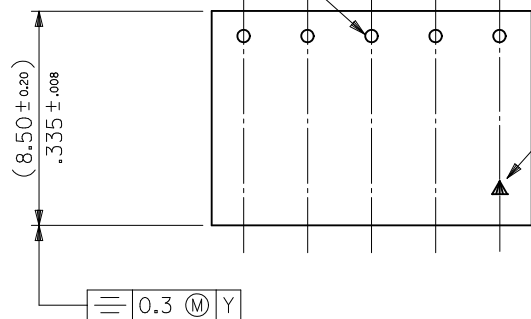
D

C

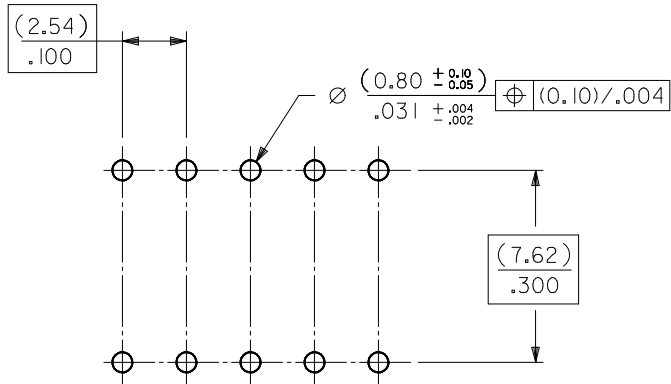
B

A

TERMINAL RETENTION FEATURE



SEE NOTE 4

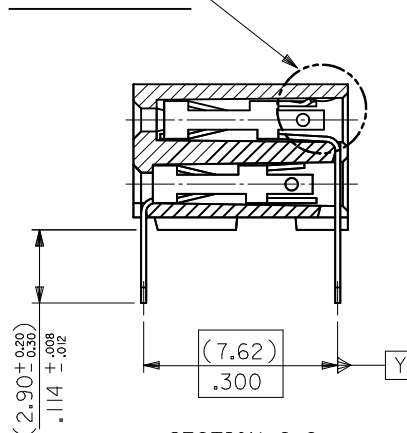


RECOMMENDED P.C. BOARD
HOLE PATTERN

NOTES

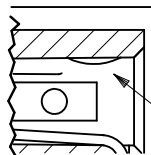
- 1) CONTACT-PLATED PHOSPHOR BRONZE.
- 2) HOUSING-15% GLASS FILLED POLYESTER, COLOUR-BLACK.
- 3) COMPATABLE WITH PCB HOLE PATTERN.
- 4) THIS MARK INDICATES CIRCUIT NO.1.
- 5) FOR (0.635)/.025 SQ. MALE PINS THE LENGTH MUST BE (5.65)/.222 MIN & (7.00)/.276 MAX. TO ENSURE GOOD CONNECTION WITH CONTACT.
-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

SEE DETAIL "A"



SECTION C-C

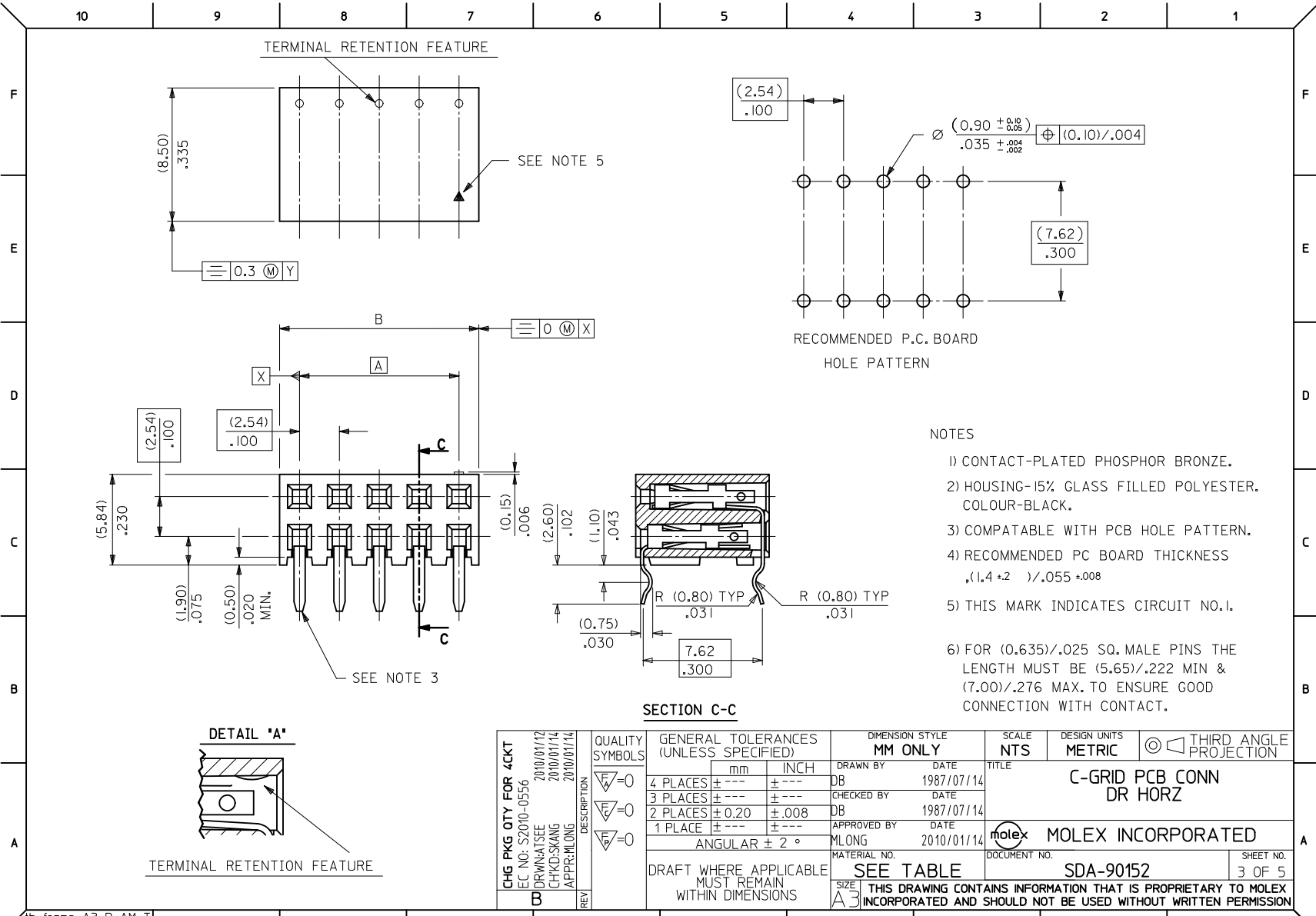
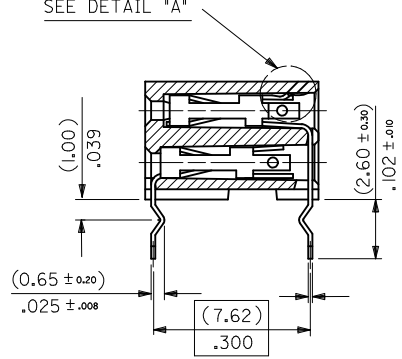
DETAIL "A"



TERMINAL RETENTION FEATURE

CHG PKG QTY FOR 4CKT EC NO: S2010-0556 DRWNATSEE 2010/01/12 CHKD:SKANG 2010/01/14 APPR:MLONG 2010/01/14				DESCRIPTION REV	QUALITY SYMBOLS </
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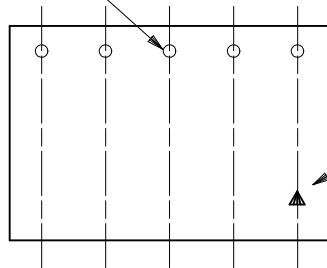


- NOTES
- 1) CONTACT-PLATED PHOSPHOR BRONZE.
 - 2) HOUSING-15% GLASS FILLED POLYESTER, COLOUR-BLACK.
 - 3) COMPATABLE WITH PCB HOLE PATTERN.
 - 4) RECOMMENDED PC BOARD THICKNESS
(1.4 ± .2) / .055 ± .008
 - 5) THIS MARK INDICATES CIRCUIT NO.1.
 - 6) FOR (0.635) / .025 SO. MALE PINS THE LENGTH MUST BE (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 A = 0 F B = 0 F C = 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 ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± .008 1 PLACE ± --- ± ---	DB 1987/07/14		C-GRID PCB CONN DR HORZ			
			ANGULAR ± 2 °	CHECKED BY DATE		MOLEX INCORPORATED			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY DATE		DOCUMENT NO.		SHEET NO.
		M LONG 2010/01/14		SEE TABLE		SDA-90152		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 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).												
	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													
E	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													
D	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													
C	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													
B	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													
A	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													

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.

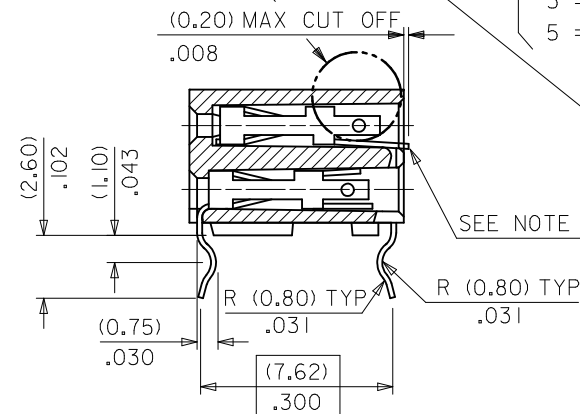
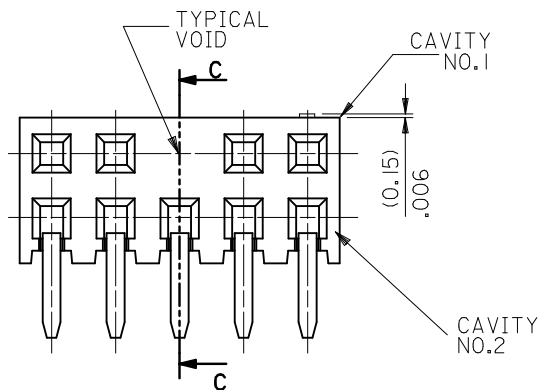
90152-XXYY

INDICATES NO. OF CIRCUITS.

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

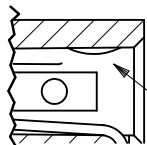
OPTIONS
2 = REGULAR
3 = KINKED
5 = VOIDS
6 = KINKS & VOIDS
7 = SELECTIVE KINKS

SEE DETAIL "A"



SECTION C-C

DETAIL "A"



TERMINAL RETENTION FEATURE

CHG PKG QTY FOR 4CKT EC NO: S2010-0556		DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION
						MM ONLY		NTS	METRIC	
B	REV		F_A=0 F_C=0 F_P=0							C-GRID PCB CONN DR HORZ
				4 PLACES	± ---	± ---	DB	1987/07/14	TITLE	
				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	 MOLEX INCORPORATED		
						MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SDA-90152		5 OF 5				
		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			
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											