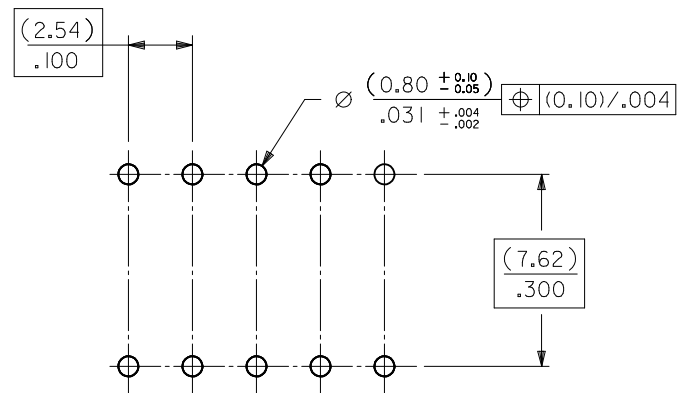
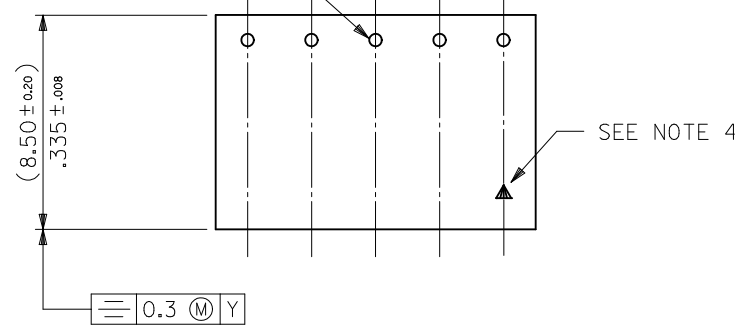


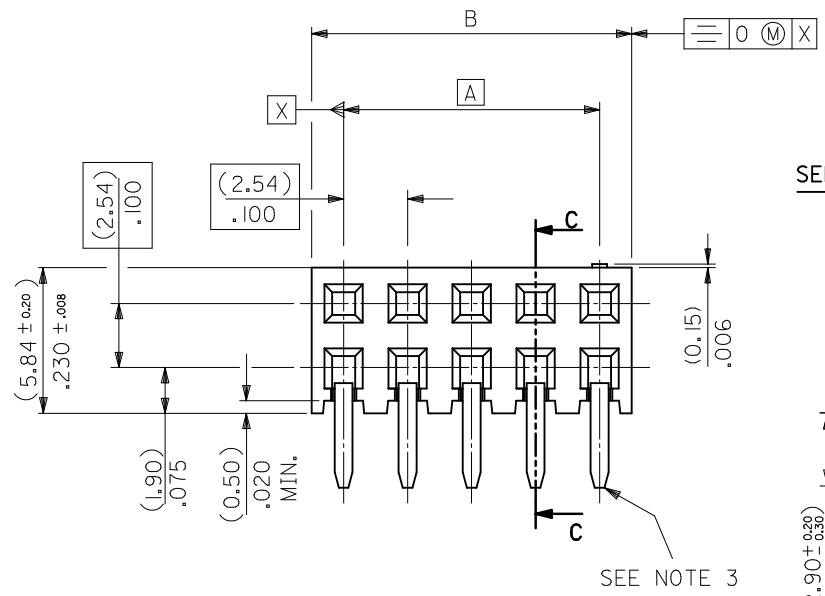
TERMINAL RETENTION FEATURE



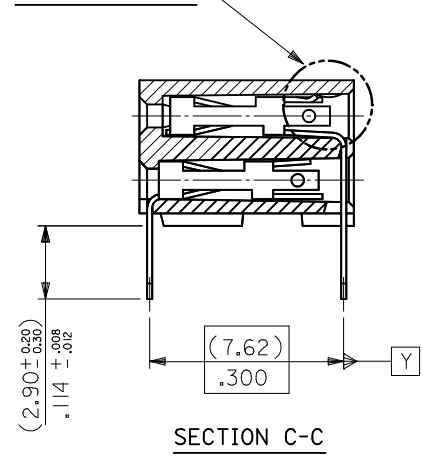
RECOMMENDED P.C. BOARD HOLE PATTERN

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

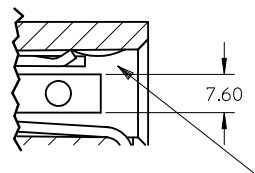


SEE DETAIL "A"



SECTION C-C

DETAIL "A"



TERMINAL RETENTION FEATURE

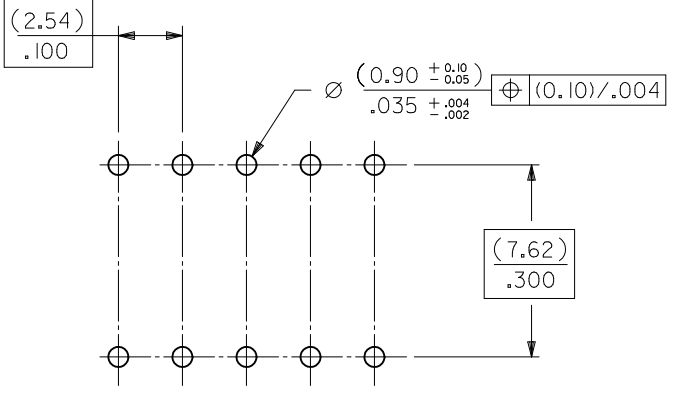
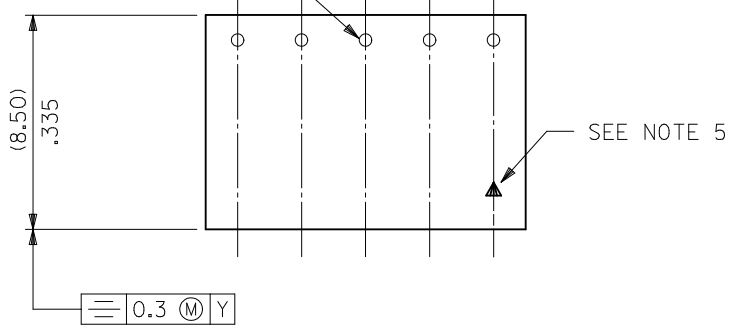
SHT385. UPDATE SEC C-C EC NO: S2011-1033 DR:WATSEE 2011/06/06 CHKD:SKANG 2011/06/21 APPR:MLONG 2011/06/21	QUALITY SYMBOLS $F_{\Delta} = 0$ $F_{\square} = 0$ $F_{\nabla} = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES $\pm$ --- $\pm$ --- 3 PLACES $\pm$ --- $\pm$ --- 2 PLACES $\pm 0.20$ $\pm .008$ 1 PLACE $\pm$ --- $\pm$ --- ANGULAR $\pm 2^{\circ}$	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	SCALE NTS TITLE C-GRID PCB CONN DR HORZ	DESIGN UNITS METRIC THIRD ANGLE PROJECTION
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE TABLE	MOLEX INCORPORATED DOCUMENT NO. SDA-90152	SHEET NO. 1 OF 5	
	SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
	REV	DESCRIPTION			

	10	9	8	7	6	5	4	3	2	1	
	PART NO.	CKT	DIM. A		DIM. B <sup>(+0.00)</sup> <sub>(-0.30)</sub> <sup>+0.00</sup> <sub>-0.12</sub>		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	90152 - X X Y Y			
	22	22					20	INDICATES NO. OF CIRCUITS			
	24	24	(27.94)	1.100	(30.48)	1.200	18	PLATING CODE. 21 = VERSION A 22 = VERSION E 23 = VERSION F 25 = VERSION G			
	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				
	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				
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				
B	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				

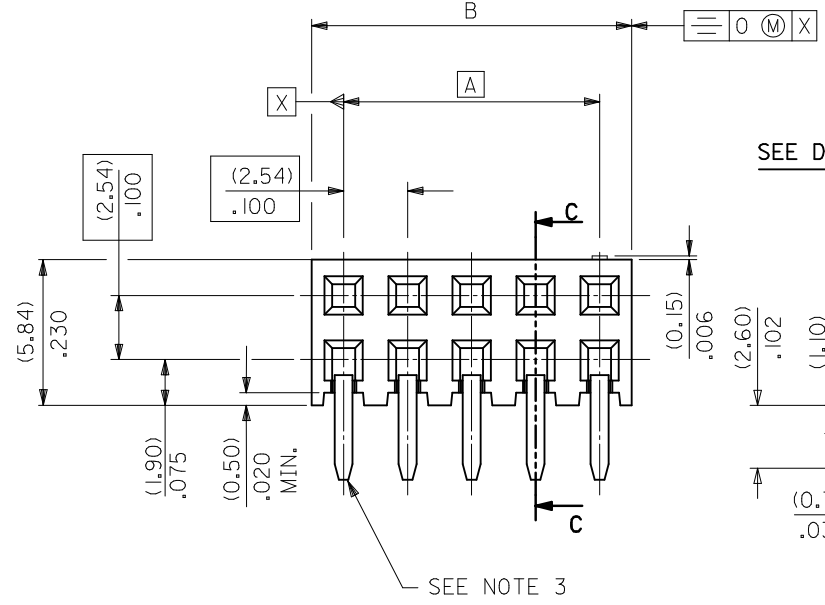
STANDARD PRODUCTS

SHT385. UPDATE SEC C-C EC NO: S2011-1033 DRW:ATSEE 2011/06/06 CHKD:SKANG 2011/06/21 APPR:MLONG 2011/06/21	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	$F_A=0$	mm	INCH	MM ONLY		NTS	METRIC		
	$F_G=0$	4 PLACES ± ---	± ---	DRAWN BY	DATE	TITLE			
	$F_P=0$	3 PLACES ± ---	± ---	DB	1987/07/14	C-GRID PCB CONN DR HORZ			
	2 PLACES ± 0.20	± .008	CHECKED BY	DATE					
	1 PLACE ± ---	± ---	DB	1987/07/14					
	ANGULAR ± 2 °		APPROVED BY	DATE	MOLEX MOLEX INCORPORATED				
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MLONG	2010/01/14	MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
			SEE TABLE		SDA-90152		2 OF 5		
			SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
			A3						

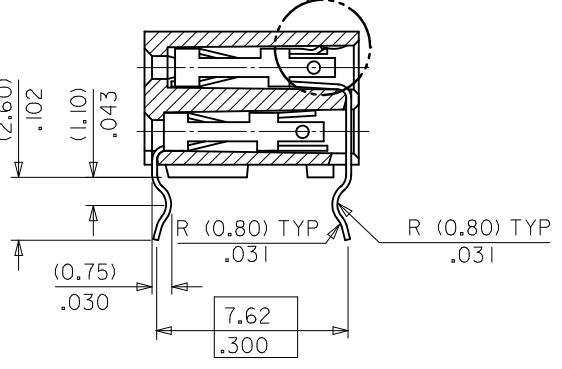
TERMINAL RETENTION FEATURE



RECOMMENDED P.C. BOARD HOLE PATTERN



SEE DETAIL "A"

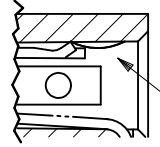


SECTION C-C

NOTES

- 1) CONTACT-PLATED PHOSPHOR BRONZE.
- 2) HOUSING-15% GLASS FILLED POLYESTER. COLOUR-BLACK.
- 3) COMPATIBLE 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 SQ. MALE PINS THE LENGTH MUST BE (5.65) / .222 MIN & (7.00) / .276 MAX. TO ENSURE GOOD CONNECTION WITH CONTACT.

DETAIL "A"



TERMINAL RETENTION FEATURE

SHT385. UPDATE SEC C-C EC NO: S2011-1033 DR:WATSEE 2011/06/06 CHKD:SKANG 2011/06/21 APPR:MLONG 2011/06/21	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$F_v = 0$ $F_c = 0$ $F_p = 0$	mm	INCH	MM ONLY	NTS	METRIC	
		4 PLACES ± ---	± ---	DRAWN BY	DATE	TITLE	
		3 PLACES ± ---	± ---	CHECKED BY	DATE	C-GRID PCB CONN DR HORZ	
	2 PLACES ± 0.20	± .008	APPROVED BY	DATE	MOLEX INCORPORATED		
	1 PLACE ± ---	± ---	MLONG	2010/01/14	DOCUMENT NO.		
	ANGULAR ± 2 °		MATERIAL NO.		SDA-90152		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SHEET NO.		
			SIZE A3		3 OF 5		
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

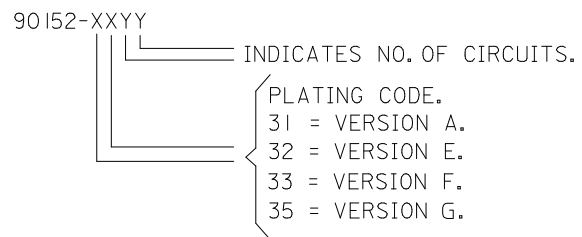
	10	9	8	7	6	5	4	3	2	1
	PART NO.	CKT	DIM. A		DIM. B <sup>(+0.00)</sup> <sub>(-0.30)</sub> <sup>+0.00</sup> <sub>-0.12</sub>		PCS/ TUBE			
F	90152-XX04	4	(2.54)	.100	(5.08)	.200	109			
	06	6	(5.08)	.200	(7.62)	.300	73			
	08	8	(7.62)	.300	(10.16)	.400	55			
	10	10	(10.16)	.400	(12.70)	.500	44			
	12	12	(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			
E	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			
D	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			
C	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			
B	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).

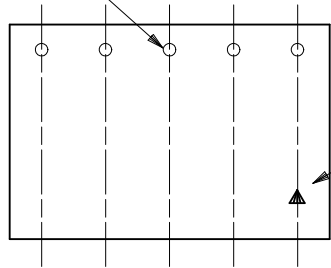
PLATING VERSION G.  
1.27 TO 1.78 microns (.00005" TO .00007") NICKEL  
OVERALL, 0.125 TO 0.20 microns (.000005" TO .0000079")  
GOLD ON CONTACT AREA (OVER NICKEL).  
3 TO 5 microns (.00012" TO .00020") TIN  
ON SOLDER TAILS (OVER NICKEL).



A	SHT385. UPDATE SEC C-C EC NO: S2011-1033 DRW:ATSEE 2011/06/06 CHKD:SKANG 2011/06/21 APPR:MLONG 2011/06/21	REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
			$F_A=0$	mm INCH	MM ONLY	NTS	METRIC		
			$F_G=0$	4 PLACES ± --- ± ---	DRAWN BY DATE	TITLE	C-GRID PCB CONN DR HORZ		
			$F_P=0$	3 PLACES ± --- ± ---	DB 1987/07/14				
	2 PLACES ± 0.20 ± .008	CHECKED BY DATE	MOLEX INCORPORATED						
	1 PLACE ± --- ± ---	DB 1987/07/14							
	ANGULAR ± 2 °	APPROVED BY DATE	DOCUMENT NO.						
		MLONG 2010/01/14				SDA-90152			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO.	SHEET NO.						
		SEE TABLE				4 OF 5			
		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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

TERMINAL RETENTION FEATURE



SEE NOTE 2.

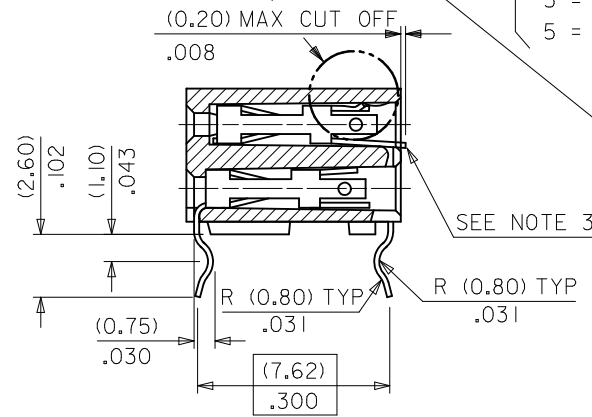
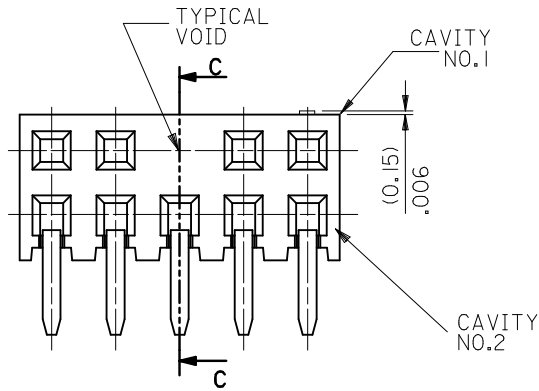
NOTES

- 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.

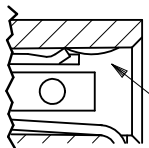
SEE DETAIL "A"



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

SECTION C-C

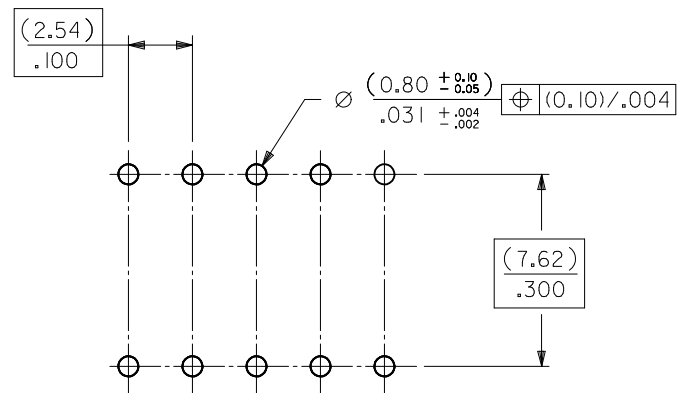
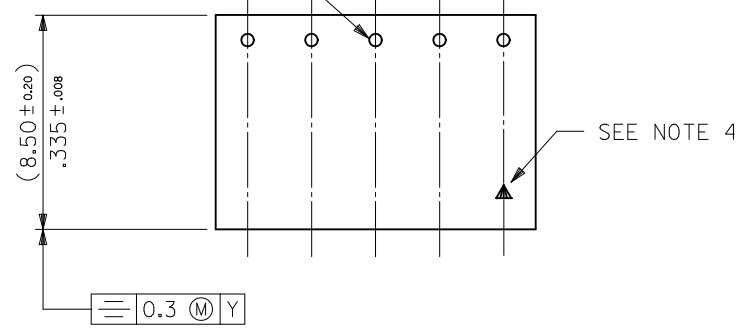
DETAIL "A"



TERMINAL RETENTION FEATURE

SHT385. UPDATE SEC C-C EC NO: S2011-1033 DR:WATSEE 2011/06/06 CHKD:SKANG 2011/06/21 APPR:MLONG 2011/06/21	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION																
		$F_A=0$ $F_C=0$ $F_P=0$	<table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>3 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.20</td> <td>± .008</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> </tbody> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.20	± .008	1 PLACE	± ---	± ---	MM ONLY	NTS	METRIC		
	mm	INCH																					
4 PLACES	± ---	± ---																					
3 PLACES	± ---	± ---																					
2 PLACES	± 0.20	± .008																					
1 PLACE	± ---	± ---																					
			<table border="1"> <thead> <tr> <th>DRAWN BY</th> <th>DATE</th> <th>TITLE</th> </tr> </thead> <tbody> <tr> <td>DB</td> <td>1987/07/14</td> <td rowspan="2">C-GRID PCB CONN DR HORZ</td> </tr> <tr> <td>CHECKED BY</td> <td>DATE</td> </tr> <tr> <td>DB</td> <td>1987/07/14</td> <td></td> </tr> <tr> <td>APPROVED BY</td> <td>DATE</td> <td></td> </tr> <tr> <td>MLONG</td> <td>2010/01/14</td> <td></td> </tr> </tbody> </table>	DRAWN BY	DATE	TITLE	DB	1987/07/14	C-GRID PCB CONN DR HORZ	CHECKED BY	DATE	DB	1987/07/14		APPROVED BY	DATE		MLONG	2010/01/14		MOLEX INCORPORATED		
DRAWN BY	DATE	TITLE																					
DB	1987/07/14	C-GRID PCB CONN DR HORZ																					
CHECKED BY	DATE																						
DB	1987/07/14																						
APPROVED BY	DATE																						
MLONG	2010/01/14																						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE TABLE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.																	
			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SDA-90152	5 OF 5																

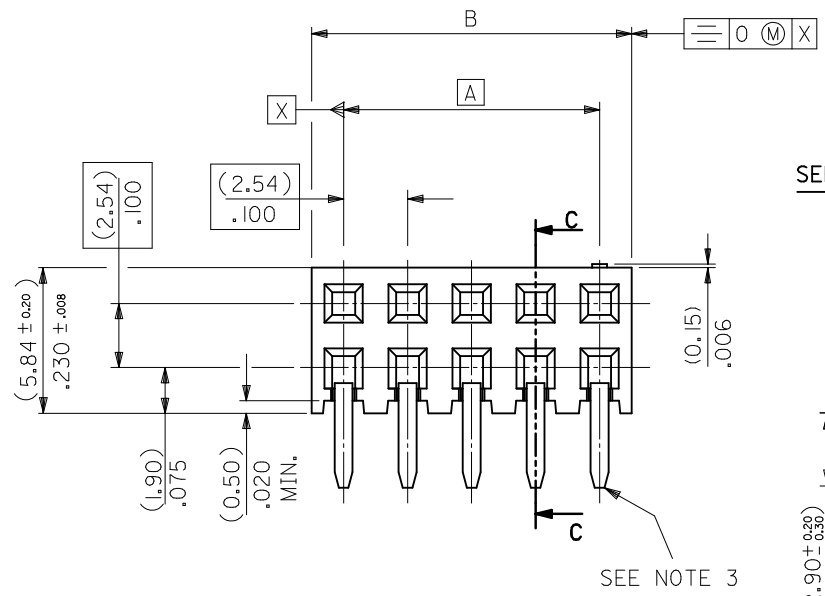
TERMINAL RETENTION FEATURE



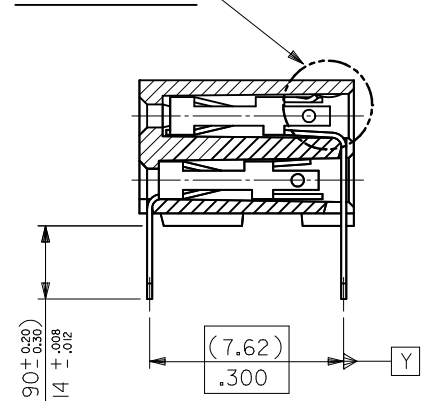
RECOMMENDED P.C. BOARD HOLE PATTERN

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

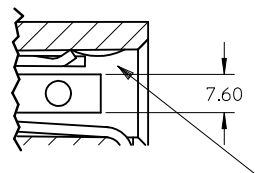


SEE DETAIL "A"



SECTION C-C

DETAIL "A"



TERMINAL RETENTION FEATURE

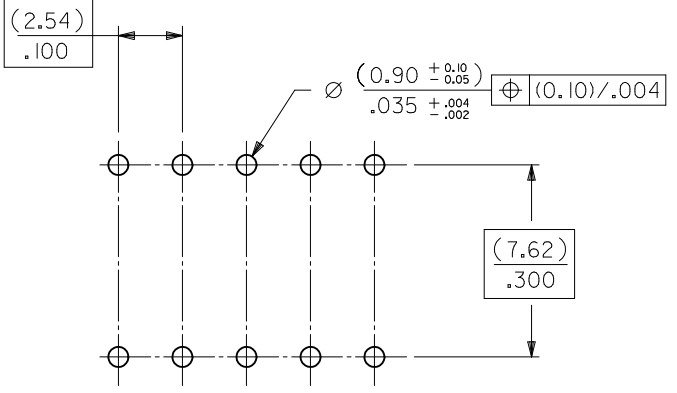
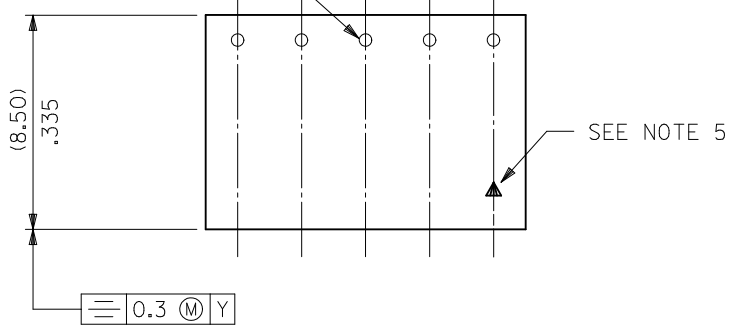
SHT385. UPDATE SEC C-C EC NO: S2011-1033 DR:WATSEE 2011/06/06 CHKD:SKANG 2011/06/21 APPR:MLONG 2011/06/21	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	$F_{\sqrt{A}}=0$ $F_{\sqrt{C}}=0$ $F_{\sqrt{P}}=0$	mm	INCH	MM ONLY	NTS	METRIC		
REV	DESCRIPTION	4 PLACES	$\pm$ ---	$\pm$ ---	DRAWN BY	DATE	TITLE	
		3 PLACES	$\pm$ ---	$\pm$ ---	DB	1987/07/14	C-GRID PCB CONN DR HORZ	
		2 PLACES	$\pm 0.20$	$\pm .008$	CHECKED BY	DATE		
		1 PLACE	$\pm$ ---	$\pm$ ---	DB	1987/07/14		
		ANGULAR $\pm 2^\circ$		APPROVED BY	DATE			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MLONG	2010/01/14			
		SIZE	SEE TABLE		MATERIAL NO.	DOCUMENT NO.	SHEET NO.	
		A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		MOLEX SDA-90152		1 OF 5	

	10	9	8	7	6	5	4	3	2	1	
	PART NO.	CKT	DIM. A		DIM. B <sup>(+0.00)</sup> <sub>(-0.30)</sub> <sup>+0.00</sup> <sub>-0.12</sub>		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	90152 - X X Y Y			
	22	22					20	INDICATES NO. OF CIRCUITS			
	24	24	(27.94)	1.100	(30.48)	1.200	18	PLATING CODE. 21 = VERSION A 22 = VERSION E 23 = VERSION F 25 = VERSION G			
	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				
	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				
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				
B	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				

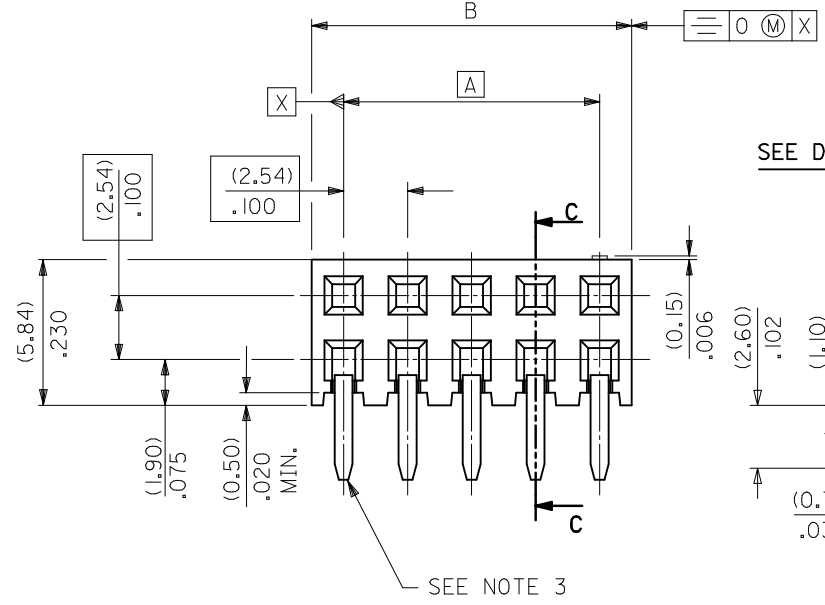
STANDARD PRODUCTS

SHT385. UPDATE SEC C-C EC NO: S2011-1033 DRW:ATSEE 2011/06/06 CHKD:SKANG 2011/06/21 APPR:MLONG 2011/06/21	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	$F_A=0$	mm	INCH	MM ONLY		NTS	METRIC		
	$F_G=0$	4 PLACES ± ---	± ---	DRAWN BY	DATE	TITLE			
	$F_P=0$	3 PLACES ± ---	± ---	DB	1987/07/14	C-GRID PCB CONN DR HORZ			
	2 PLACES ± 0.20	± .008	CHECKED BY	DATE					
	1 PLACE ± ---	± ---	DB	1987/07/14					
	ANGULAR ± 2 °		APPROVED BY	DATE	MOLEX MOLEX INCORPORATED				
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MLONG	2010/01/14	MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
			SEE TABLE		SDA-90152		2 OF 5		
			SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
			A3						

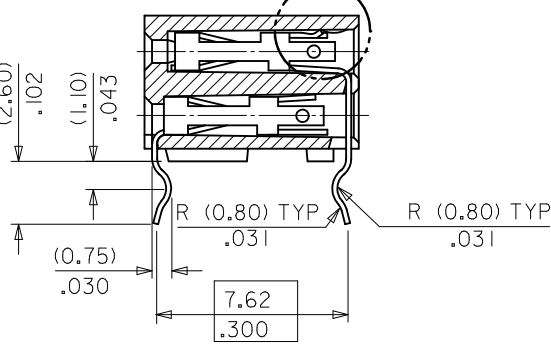
TERMINAL RETENTION FEATURE



RECOMMENDED P.C. BOARD HOLE PATTERN



SEE DETAIL "A"

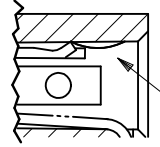


SECTION C-C

NOTES

- 1) CONTACT-PLATED PHOSPHOR BRONZE.
- 2) HOUSING-15% GLASS FILLED POLYESTER. COLOUR-BLACK.
- 3) COMPATIBLE 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 SQ. MALE PINS THE LENGTH MUST BE (5.65)/.222 MIN & (7.00)/.276 MAX. TO ENSURE GOOD CONNECTION WITH CONTACT.

DETAIL "A"



TERMINAL RETENTION FEATURE

SHT385. UPDATE SEC C-C EC NO: S2011-1033 DR:WATSEE 2011/06/06 CHKD:SKANG 2011/06/21 APPR:MLONG 2011/06/21	QUALITY SYMBOLS $F_{A'}=0$ $F_{C'}=0$ $F_{P'}=0$	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 DB 1987/07/14 CHECKED BY DATE DB 1987/07/14 APPROVED BY DATE MLONG 2010/01/14	SCALE NTS TITLE C-GRID PCB CONN DR HORZ	DESIGN UNITS METRIC THIRD ANGLE PROJECTION
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE TABLE	MOLEX INCORPORATED 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			
	REV	C			



	10	9	8	7	6	5	4	3	2	1
	PART NO.	CKT	DIM. A		DIM. B <sup>(+0.00)</sup> <sub>(-0.30)</sub> <sup>+0.00</sup> <sub>-0.12</sub>		PCS/ TUBE			
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			
E	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			
D	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			
C	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			
B	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).

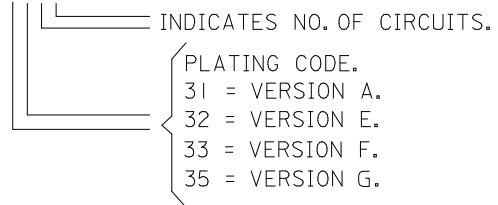
PLATING VERSION F.

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).

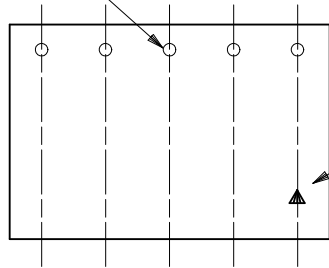
90152-XXYY



A	SHT385. UPDATE SEC C-C EC NO: S2011-1033 DRW:ATSEE 2011/06/06 CHKD:SKANG 2011/06/21 APPR:MLONG 2011/06/21	REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
			$F_A=0$	mm INCH	MM ONLY	NTS	METRIC		
			$F_C=0$	4 PLACES ± --- ± ---	DRAWN BY DATE	TITLE	C-GRID PCB CONN DR HORZ		
			$F_P=0$	3 PLACES ± --- ± ---	DB 1987/07/14				
	2 PLACES ± 0.20 ± .008	CHECKED BY DATE	MOLEX INCORPORATED						
	1 PLACE ± --- ± ---	DB 1987/07/14							
	ANGULAR ± 2 °	APPROVED BY DATE	DOCUMENT NO.						
		MLONG 2010/01/14				SDA-90152			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO.	SHEET NO.						
		SEE TABLE				4 OF 5			
		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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

TERMINAL RETENTION FEATURE



SEE NOTE 2.

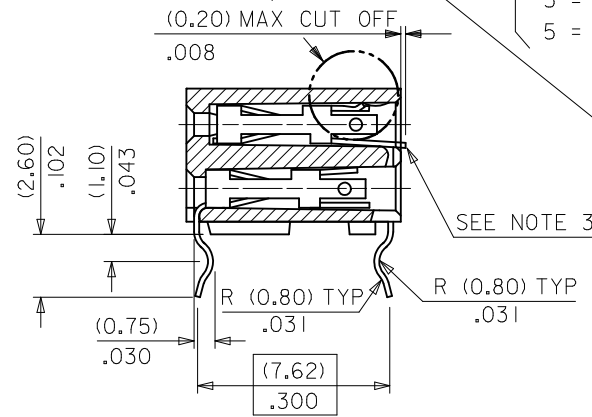
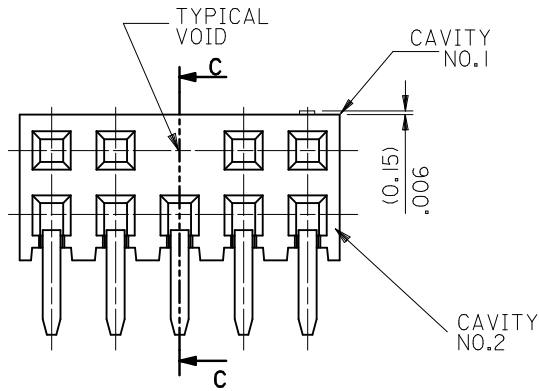
NOTES

- 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.

SEE DETAIL "A"

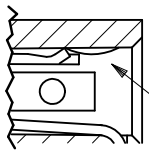


- OPTIONS
- 2 = REGULAR
- 3 = KINKED
- 5 = VOIDS
- 6 = KINKS & VOIDS
- 7 = SELECTIVE KINKS

SEE NOTE 3

SECTION C-C

DETAIL "A"



TERMINAL RETENTION FEATURE

SHT385. UPDATE SEC C-C EC NO: S2011-1033 DR:WATSEE 2011/06/06 CHKD:SKANG 2011/06/21 APPR:MLONG 2011/06/21	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		$F_A=0$ $F_C=0$ $F_P=0$	mm	INCH	MM ONLY	NTS	METRIC		
			4 PLACES	± --- ± ---	DRAWN BY	DATE	TITLE		
			3 PLACES	± --- ± ---	CHECKED BY	DATE	C-GRID PCB CONN DR HORZ		
			2 PLACES	± 0.20 ± .008	APPROVED BY	DATE	MOLEX INCORPORATED		
			1 PLACE	± --- ± ---	MLONG	2010/01/14	DOCUMENT NO. SDA-90152		
			ANGULAR ± 2 °		MATERIAL NO.	SHEET NO. 5 OF 5			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
					A3				