

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Molex Connector Corporation](#)
[43249-8104](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

NOTES:

1) MATERIAL:

HOUSING: NYLON(PA), GLASS FILLED, UL94V-0, COLOR: BLACK
 INSULATOR: NYLON(PA), GLASS FILLED, UL94V-0, COLOR: BLACK
 TERMINALS: PHOSPHOR BRONZE, .012/(0.30) THICK
 SHIELD: BRASS, .007/(0.18) THICK

2) FINISH:

TERMINALS:

- A = SELECT GOLD IN CONTACT AREA: 50 MICROINCHES / 1.27 MICROMETERS MIN.,
 *SELECT TIN IN PC TAIL AREA: 100 MICROINCHES / 2.54 MICROMETERS MIN.,
 WITH OVERALL NICKEL UNDERPLATE: 50 MICROINCHES / 1.27 MICROMETERS MIN.
 B = SELECT GOLD IN CONTACT AREA: 30 MICROINCHES / 0.76 MICROMETERS MIN.,
 *SELECT TIN IN PC TAIL AREA: 100 MICROINCHES / 2.54 MICROMETERS MIN.,
 WITH OVERALL NICKEL UNDERPLATE: 50 MICROINCHES / 1.27 MICROMETERS MIN.

SHIELD:

- *100 MICROINCHES / 2.54 MICROMETERS NICKEL OVER 50 MICROINCHES / 1.27 MICROMETERS COPPER UNDERPLATE, PCB GROUND TABS DIPPED IN TIN
 *THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC".
 CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD IN THE PC TAILS AND/OR SHIELD.

3) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: PS-43249.

4) PACKAGING SPECIFICATION:

UNSHIELDED CONNECTOR ASSEMBLIES PACKAGED IN THERMOFORMED TRAYS
 PER MOLEX PACKAGING SPECIFICATION PK-43249-004.
 UNSHIELDED CONNECTOR ASSEMBLIES PACKAGED IN TUBES
 PER MOLEX PACKAGING SPECIFICATION PK-43249-005.
 SHIELDED CONNECTOR ASSEMBLIES PACKAGED IN THERMOFORMED TRAYS
 PER MOLEX PACKAGING SPECIFICATION PK-44050-004.

5) MATES WITH: MODULAR PLUGS THAT CONFORM TO FCC REGULATION PART 68.5.

6) SEE SHEET 3 FOR SHIELDED JACK ASSEMBLY.

7) SEE SHEETS 5 & 6 FOR P.C. BOARD LAYOUTS.

8) ALL UNTOLERANCED DIMENSIONS ARE SHOWN FOR REFERENCE ONLY.

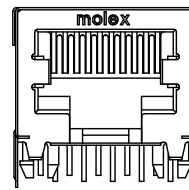
9) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

10) THIS PART CONFORMS TO FCC REGULATION 68.5 AND TIA 1096 FOR MODULAR JACKS.

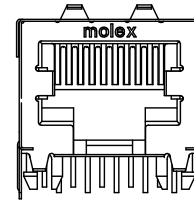
DRAWING LEGEND

SHEET 1- NOTES, GROUND TAB OPTIONS
 SHEET 2- UNSHIELDED MODULAR JACK
 SHEET 3- SHIELDED MODULAR JACK WITH
 OPTIONAL SIDE/TOP GROUND TABS & BOTTOM GROUND
 TAB WITH OPTIONAL POSITION.
 SHEET 4- PART NUMBER CHARTS
 SHEET 5- FOOTPRINT LAYOUT FOR 8 POSITION HOUSING
 SHEET 6- FOOTPRINT LAYOUT FOR 6 POSITION HOUSING

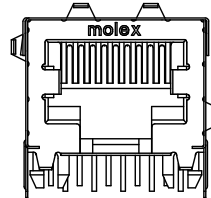
SIDE/TOP GROUND TAB OPTIONS FOR SHIELDS



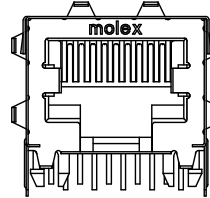
OPTION "A"
NO TOP OR SIDE TABS



OPTION "B"
TOP TABS

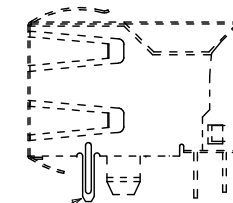


OPTION "C"
TOP AND STAGGERED SIDE TABS

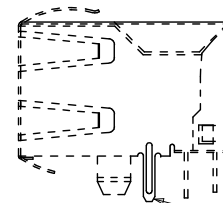


OPTION "D"
TOP AND SIDE TABS

BOTTOM PCB GROUND TAB OPTIONS FOR SHIELDS



OPTION "E"
OPTIONAL FRONT POSITION



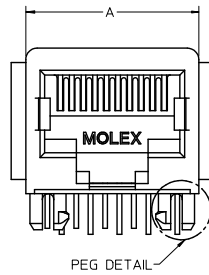
OPTION "F"
OPTIONAL REAR POSITION

NOTE: EITHER PCB GROUND TAB OPTION IS AVAILABLE
ON ALL SIDE/TOP TAB CONFIGURATIONS

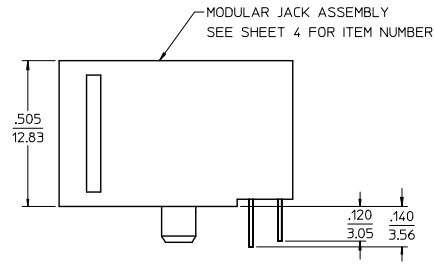
ADDED NOTE 10 EC NO: UCP2009-0740 DRAWN: JACUSTE/ER/2008/09/29 CHKD: JELL APPR: SMTH 2008/10/03 2008/10/03	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION			
			mm	INCH	DRAWN BY	DATE	TITLE LOW PROFILE RIGHT ANGLE MODULAR JACK ASSEMBLY					
			4 PLACES ±	---	JTR	1993/06/23						
			3 PLACES ±	---	CHECKED BY	DATE						
			2 PLACES ±	0.25	JTR	1993/06/23	MOLEX INCORPORATED					
			1 PLACE ±	---	APPROVED BY	DATE						
			ANGULAR ±1/2°		RAS	1993/06/23						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 4		SDA-43249		SHEET NO. 1 OF 6			
					SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

UNSHIELDED MODULAR JACK

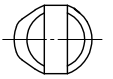
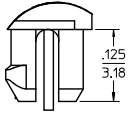
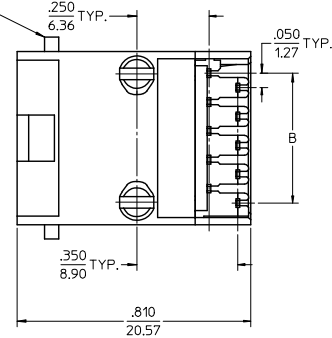
8 POSITION LOADED 10 SIZE SHOWN



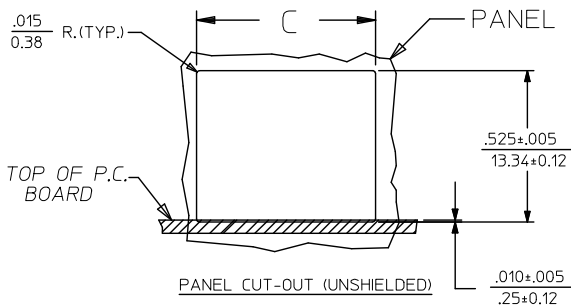
PEG DETAIL



OPTIONAL FLANGE
USED FOR FLUSH
MODULAR JACK



PEG DETAIL
SCALE 8:1

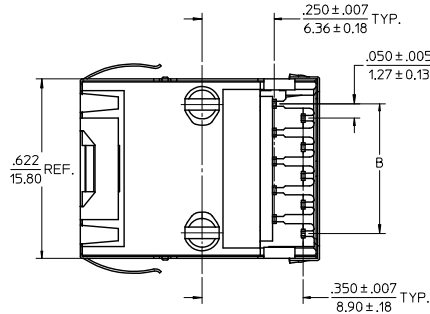
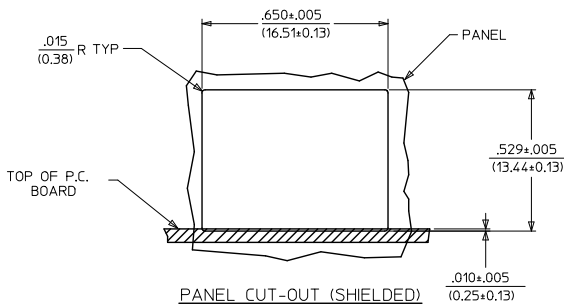
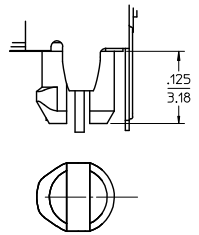
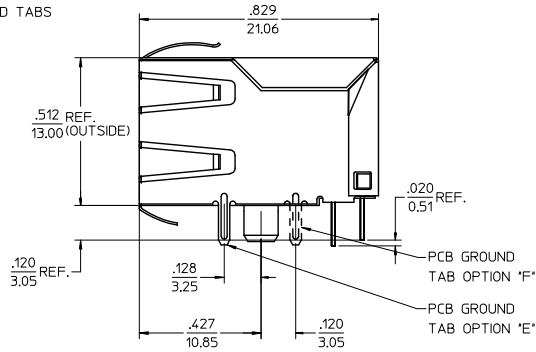
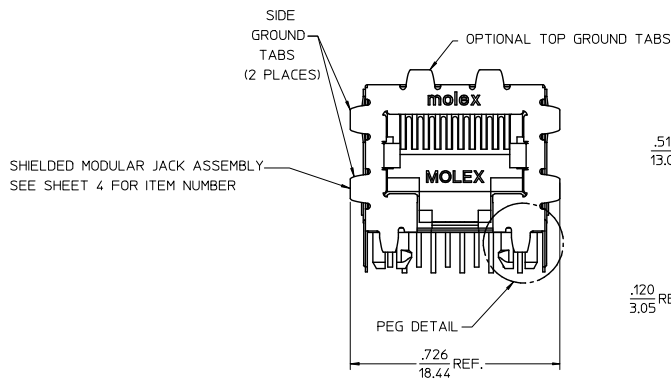


HOUSING SIZE	CIRCUIT SIZE	DIM. A	DIM. B	DIM. C
8	10	.600±.005 (15.24±0.13)	.450±.005 (11.43±0.13)	.620±.005 (15.75±0.13)
8	8	.600±.005 (15.24±0.13)	.350±.005 (8.89±0.13)	.620±.005 (15.75±0.13)
8	4	.600±.005 (15.24±0.13)	.150±.005 (3.81±0.13)	.620±.005 (15.75±0.13)
8	6	.600±.005 (15.24±0.13)	.250±.005 (6.35±0.13)	.620±.005 (15.75±0.13)
6	6	.520±.005 (13.21±0.13)	.250±.005 (6.35±0.13)	.540±.005 (13.72±0.13)
6	4	.520±.005 (13.21±0.13)	.150±.005 (3.81±0.13)	.540±.005 (13.72±0.13)
6	2	.520±.005 (13.21±0.13)	.050±.005 (1.27±0.13)	.540±.005 (13.72±0.13)

REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	TITLE
			mm	INCH	IN/MM	DATE				
1	SEE SHEET 1	4 PLACES ±.005	±.005	±.005	JTR	1993/06/23	4:1	INCH	THIRD ANGLE PROJECTION	LOW PROFILE RIGHT ANGLE MODULAR JACK ASSEMBLY
2	EC NO: UCP2009-0740	3 PLACES ±.010	±.010	±.010	CHECKED BY	DATE				
3	DRWN: JACUSTE/ER2008/09/29	2 PLACES ±0.25	±.010	±.010	JTR	1993/06/23				
4	CHKD: BELL	1 PLACE ±.005	±.005	±.005	APPROVED BY	DATE				
5	APPR: SMTH	ANGULAR ±1/2°	±.005	±.005	RAS	1993/06/23				
6		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.	DATE				
7					SEE SHEET 4	SDA-43249				
8										
9										
10										
11										
12										

MODULAR JACK W/ .007" THICK SHIELD AND OPTIONAL GROUND TABS

8 LOADED 10 VERSION SHOWN WITH GROUND TAB OPTIONS 'D' AND 'E'



DESCRIPTION OF GROUND TAB OPTIONS:
(SEE SHEET 4 FOR AVAILABLE COMBINATIONS OF OPTIONS)

GROUND TAB OPTION	DESCRIPTION
A	NO GROUND TABS
B	TOP TABS ONLY
C	STAGGERED SIDE TABS
D	TOP AND SIDE TABS
E	PCB GROUND TAB IN FRONT POSITION
F	PCB GROUND TAB IN REAR POSITION

HOUSING SIZE	CIRCUIT SIZE	B
8	10	.450±.005 11.43±0.13
8	8	.350±.005 8.89±0.13

SEE SHEET 1 EC NO: UCP2009-0740 DRWN: JACUSTE/ER/2008/09/29 CHKD: JELL APPR: SMTH 2008/10/03 2008/10/03 REV K1	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ±--- ±--- 3 PLACES ±--- ±.010 2 PLACES ±0.25 ±--- 1 PLACE ±--- ±--- ANGULAR ±1/2°	DIMENSION STYLE IN/MM DRAWN BY JTR DATE 1993/06/23 CHECKED BY JTR DATE 1993/06/23 APPROVED BY RAS DATE 1993/06/23 MATERIAL NO. SEE SHEET 4	SCALE 4:1 DESIGN UNITS INCH THIRD ANGLE PROJECTION	TITLE LOW PROFILE RIGHT ANGLE MODULAR JACK ASSEMBLY MOLEX INCORPORATED	DOCUMENT NO. SDA-43249	SHEET NO. 3 OF 6
	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							
	MOLEX INCORPORATED							

FLUSH MOUNT (UNSHIELDED)

ASSEMBLY ITEM NUMBER	CONNECTOR SIZE	NUMBER OF CIRCUITS	TERMINAL PLATING OPTION
43249-8001	8	10	A
43249-8004	8	8	A
43249-8010	8	6	A
43249-6001	6	6	A
43249-6004	6	4	A
43249-6007	6	2	A

SHIELDED, .007" THICK

ASSEMBLY ITEM NUMBER	CONN. SIZE	NUMBER OF CIRCUITS	TERMINAL PLATING OPTION	SIDE/TOP PANEL GROUND TAB OPTION	PCB GROUND TAB OPTION	PACKAGING OPTION
43249-8900	8	10	A	A	E	TRAY
43249-8901	8	10	A	B	E	TRAY
43249-8902	8	10	A	C	E	TRAY
43249-8903	8	10	A	D	E	TRAY
43249-8908	8	10	A	A	F	TRAY
43249-8909	8	10	A	B	F	TRAY
43249-8910	8	10	A	C	F	TRAY
43249-8911	8	10	A	D	F	TRAY
43249-8916	8	8	A	A	E	TRAY
43249-8917	8	8	A	B	E	TRAY
43249-8918	8	8	A	C	E	TRAY
43249-8919	8	8	A	D	E	TRAY
43249-8920	8	8	B	A	E	TRAY
43249-8924	8	8	A	A	F	TRAY
43249-8925	8	8	A	B	F	TRAY
43249-8926	8	8	A	C	F	TRAY
43249-8927	8	8	A	D	F	TRAY

FLANGELESS (UNSHIELDED)

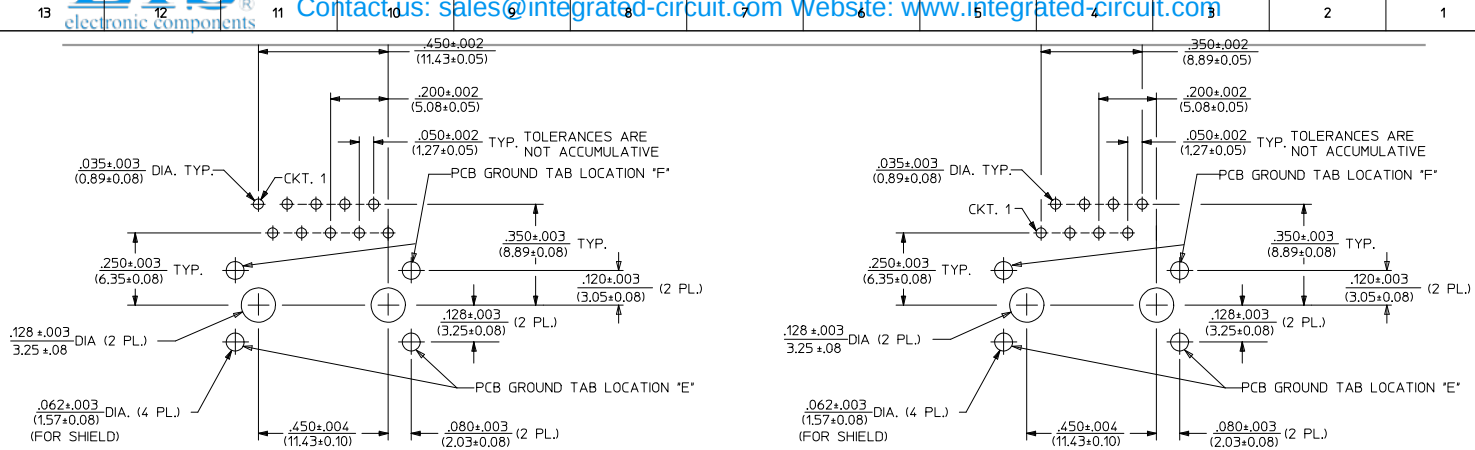
ASSEMBLY ITEM NUMBER	CONNECTOR SIZE	NUMBER OF CIRCUITS	TERMINAL PLATING OPTION
43249-8101	8	10	A
43249-8102	8	10	B
43249-8104	8	8	A
43249-8105	8	8	B
43249-8116	8	6	A
43249-8119	8	4	A
43249-6101	6	6	A
43249-6104	6	4	A
43249-6107	6	2	A

FLANGELESS (UNSHIELDED)

(SHIPPED IN TUBES)

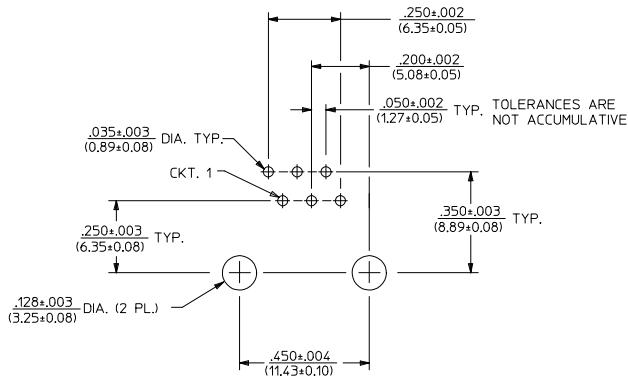
43249-6501	6	6	A
43249-6504	6	4	A

SEE SHEET 1 EC NO: UCP2009-0740 DRAWN: JACUSTE/ER/2008/09/29 CHKD: BELL/2008/10/03 APPR: SMITH/2008/10/03 K1	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	LOW PROFILE RIGHT ANGLE MODULAR JACK ASSEMBLY MOLEX INCORPORATED SDA-43249 SHEET NO. 4 OF 6			
			mm	INCH	DRAWN BY	DATE	TITLE						
			4 PLACES ± .005	± .005	JTR	1993/06/23							
			3 PLACES ± .010	± .010	CHECKED BY	DATE							
			2 PLACES ± 0.25	± .005	JTR	1993/06/23							
			1 PLACE ± .005	± .005	APPROVED BY	DATE							
			ANGULAR ± 1/2°		RAS	1993/06/23							
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE CHART		DOCUMENT NO. SDA-43249		SHEET NO. 4 OF 6				
					SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						



PC BOARD LAYOUT FOR SIZE 8, 10 CIRCUIT
(COMPONENT SIDE OF BOARD)

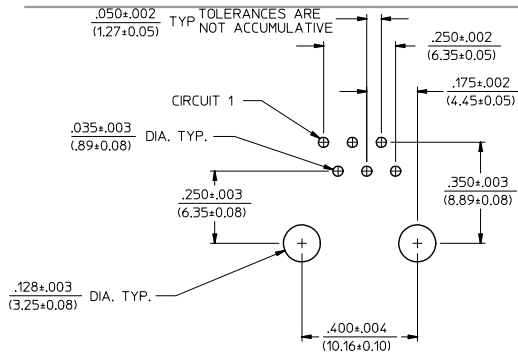
PC BOARD LAYOUT FOR SIZE 8, 8 CIRCUIT
(COMPONENT SIDE OF BOARD)



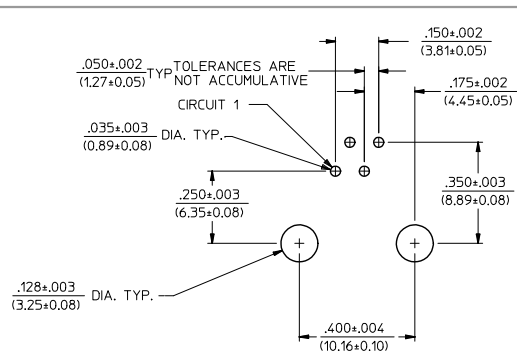
PC BOARD LAYOUT FOR SIZE 8, 6 CIRCUIT
(COMPONENT SIDE OF BOARD)

NOTES:
1. RECOMMENDED PCB THICKNESS: .062±.005/(1.57±0.13)

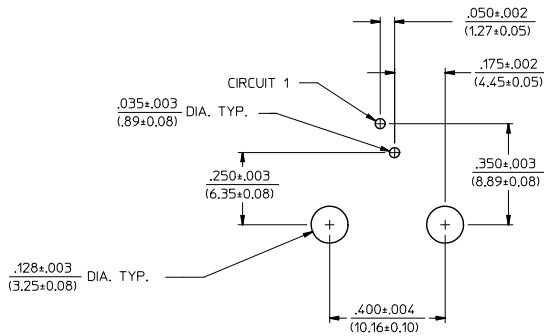
SEE SHEET 1	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION	TITLE LOW PROFILE RIGHT ANGLE MODULAR JACK ASSEMBLY	MATERIAL NO. SEE SHEET 4	DOCUMENT NO. SDA-43249	SHEET NO. 5 OF 6
			mm	INCH	DRAWN BY JTR	DATE 1993/06/23	TITLE						
			4 PLACES ± --- ± ---	CHECKED BY JTR	DATE 1993/06/23								
			3 PLACES ± --- ± .010	APPROVED BY	DATE								
			2 PLACES ± .025 ± ---	1993/06/23									
			1 PLACE ± --- ± ---										
			ANGULAR ±1/2°										
REV	DESCRIPTION	QUALITY SYMBOLS	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										



PC BOARD LAYOUT FOR SIZE 6, 6 CIRCUIT
(COMPONENT SIDE OF BOARD)



PC BOARD LAYOUT FOR SIZE 6, 4 CIRCUIT
(COMPONENT SIDE OF BOARD)



PC BOARD LAYOUT FOR SIZE 6, 2 CIRCUIT
(COMPONENT SIDE OF BOARD)

NOTES:
1. RECOMMENDED PCB THICKNESS: .062±.005/(1.57±0.13)

SEE SHEET 1 EC NO: UCP2009-0740 DRWN: JALUSTE/ER/2008/09/29 CHKD: J.BELL 2008/10/03 APPR: J.SMITH 2008/10/03 K1 REV	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION		
			mm		INCH		DRAWN BY JTR	DATE 1993/06/23	TITLE LOW PROFILE RIGHT ANGLE MODULAR JACK ASSEMBLY				
			4 PLACES ±		±		CHECKED BY JTR	DATE 1993/06/23					
			3 PLACES ±		±.010								
			2 PLACES ±		0.25								
			1 PLACE ±		±		APPROVED BY RAS		DATE 1993/06/23				
			ANGULAR ±1/2°										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO. SEE SHEET 4			DOCUMENT NO. SDA-43249			SHEET NO. 6 OF 6				
			SIZE C			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							