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Part Number: [0432028902](#)
Status: **Active**
Overview: [modular_plugs_jacks](#)
Description: Modular Jack, Right Angle, Low Profile, Shielded, Offset Panel Grounding Tabs, with Bottom Grounding Tab, Front Position PCB Ground Tab, 8/10

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)
[Product Specification PS-43202-001 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
UL E107635

General

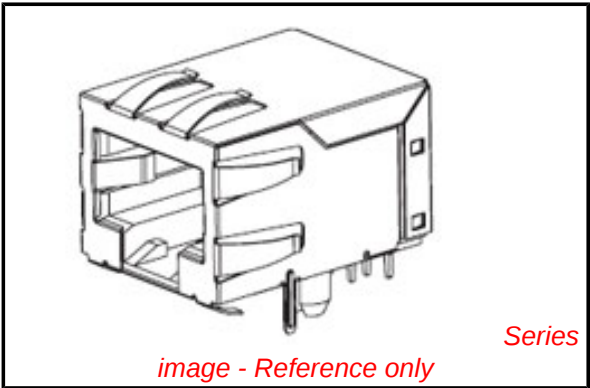
Product Family Modular Jacks/Plugs
Series [43202](#)
Comments Enhanced panel grounding tabs
Component Type PCB Jack
Magnetic No
Overview [modular_plugs_jacks](#)
Performance Category 3
Power over Ethernet (PoE) N/A
Product Name RJ45

Physical

Color - Resin Black
Durability (mating cycles max) 500
Flammability 94V-0
Inverted / Top Latch No
Lightpipes/LEDs None
Material - Metal Brass, Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
Orientation Right Angle (Side Entry)
PCB Retention Yes
PCB Thickness Recommended (in) 0.062 In
PCB Thickness Recommended (mm) 1.60 mm
Packaging Type Tray
Panel Mount With Flange
Pitch - Mating Interface (in) 0.050 In
Pitch - Mating Interface (mm) 1.27 mm
Plating min: Mating (µin) 50
Plating min: Mating (µm) 1.25
Plating min: Termination (µin) 100
Plating min: Termination (µm) 2.5
Ports 1
Positions / Loaded Contacts 8/10
Surface Mount Compatible (SMC) Yes
Temperature Range - Operating -40°C to +85°C
Termination Interface: Style Through Hole
Wire/Cable Type N/A

Electrical

Current - Maximum per Contact 1.5A



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
[43202Series](#)

Mates With
FCC 68 Plugs

Grounding to PCB	Yes
Grounding to Panel	Offset Panel Ground Tabs
Shielded	Yes
Voltage - Maximum	125V

Solder Process Data

Lead-free Process Capability	Wave Capable (TH only)
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Material Info

Reference - Drawing Numbers

Packaging Specification	PK-43202-004
Product Specification	PS-43202-001, RPS-43202-002
Sales Drawing	SDA-43202

This document was generated on 06/07/2010

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NOTES:

1) MATERIAL:

HOUSING: NYLON(PA), GLASS FILLED, UL94V-0, COLOR: SEE SHEETS 5 AND 6
INSULATOR: NYLON(PA), GLASS FILLED, UL94V-0, COLOR: SEE SHEETS 5 AND 6
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.
*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.

SHIELD:

100 MICROINCHES / 2.54 MICROMETERS NICKEL OVER 50 MICROINCHES / 1.27
MICROMETERS COPPER UNDERPLATE PCB GROUND TABS DIPPED IN TIN

3) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: PS-43202.

4) PACKAGING SPECIFICATION:

UNSHIELDED CONNECTOR ASSEMBLIES PACKAGED IN THERMOFORMED TRAYS
PER MOLEX PACKAGING SPECIFICATION PK-43202-003.
UNSHIELDED CONNECTOR ASSEMBLIES PACKAGED IN TUBES
PER MOLEX PACKAGING SPECIFICATION PK-43202-005.
SHIELDED CONNECTOR ASSEMBLIES PACKAGED IN THERMOFORMED TRAYS
PER MOLEX PACKAGING SPECIFICATION PK-43202-004.

5) SEE SHEETS 7 - 9 FOR P.C. BOARD LAYOUTS.

6) CONFORMS TO FCC REGULATION PART 68.5 FOR MODULAR JACKS.

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



SHIELDED MODULAR JACK
SHOWN WITH PANEL GROUND
OPTION 'D' AND FRONT
PCB GROUND TABS.

DRAWING LEGEND

SHEET 1- NOTES, DRAWING LEGEND
SHEET 2- SHIELDED MODULAR JACK W/ BOTTOM GROUND TABS
SHEET 3- SHIELDED MODULAR JACK W/O BOTTOM GROUND TABS
SHEET 4- UNSHIELDED MODULAR JACK
SHEET 5- PART NUMBER CHARTS
SHEET 6- PART NUMBER CHARTS
SHEET 7- FOOTPRINT LAYOUT FOR 4 POSITION HOUSING
SHEET 8- FOOTPRINT LAYOUT FOR 6 POSITION HOUSING
SHEET 9- FOOTPRINT LAYOUT FOR 8 POSITION HOUSING

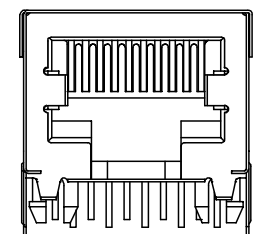
OBS COLORED JACKS EC NO: UCP2008-1189 DRAWN:JBELL 2007/11/30 CHKD:LSCHMIDT 2008/02/20 APPR:FSM/TH 2008/03/04	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION	TITLE ULTRA LOW PROFILE RIGHT ANGLE MODULAR JACK ASSEMBLY MOLEX INCORPORATED	DOCUMENT NO. SDA-43202	SHEET NO. 1 OF 9	
				mm	INCH	DRAWN BY JTR		DATE 1993/03/31					
			4 PLACES	±---	±---	CHECKED BY JTR		DATE 1993/03/31					
			3 PLACES	±---	±.010								
			2 PLACES	±0.25	±.014								
			1 PLACE	±0.36	±---	APPROVED BY RAS		DATE 1993/03/31					
			ANGULAR ±1/2°		MATERIAL NO.								
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHTS 5&6								
					SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

9	L2
8	L2
7	L2
6	L4
5	L
4	K2
3	L1
2	L1
1	L4
SH	REV

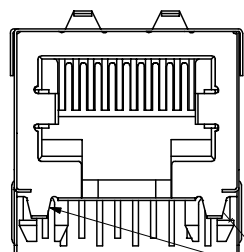
SHIELDED MODULAR JACK W/BOTTOM GROUND TABS

SIZE 8 LOADED 10 VERSION SHOWN

SIDE/TOP GROUND TAB OPTIONS FOR SHIELDS



OPTION "A"
NO TOP OR SIDE TABS

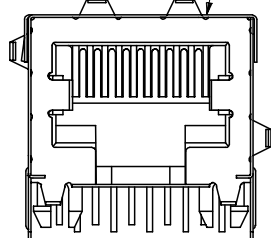


OPTION "B"
TOP TABS

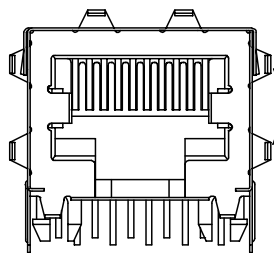
BOTTOM
GROUND TABS

OPTIONAL TOP GROUND TABS

SHIELDED MODULAR JACK ASSEMBLY
SEE SHEET 5 FOR MATERIAL NO.

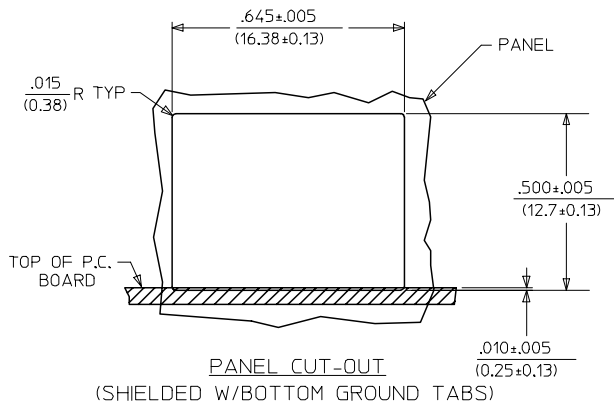
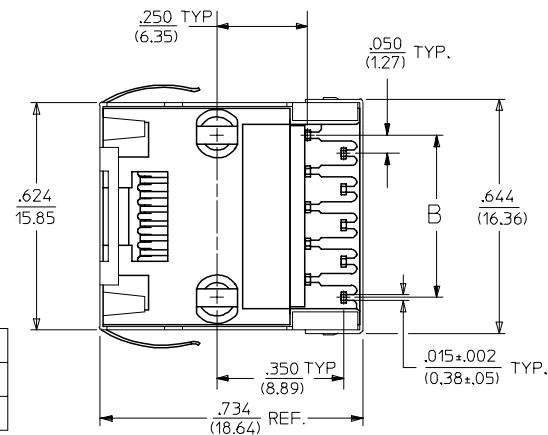
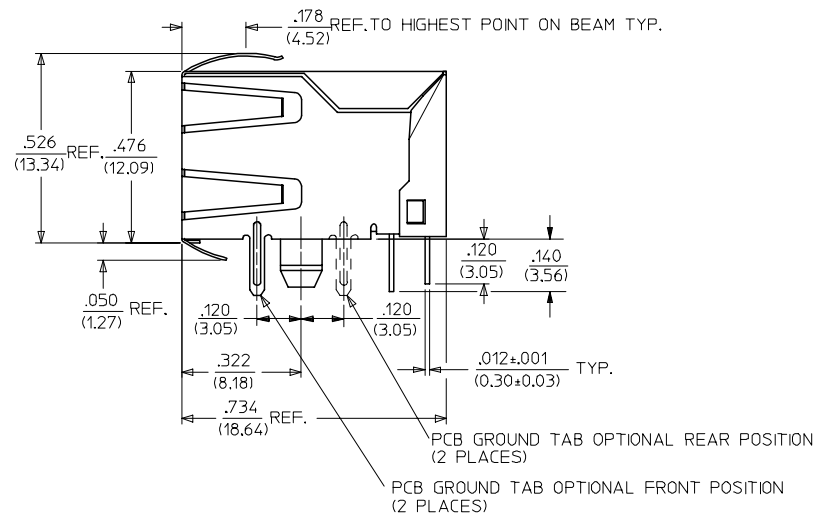


OPTION "C"
TOP AND STAGGERED SIDE TABS



OPTION "D"
TOP AND SIDE TABS

OPTIONAL SIDE
GROUND TABS
(2 PLACES)



HOUSING SIZE	CIRCUIT SIZE	B
8	10	.450±.005 11.43±.13
8	8	.350±.005 8.89±.13

SEE SHEET ONE FC NO: UCP2004-1888 DRWN: SCHMIDT 2004/03/31 CHKD: SCHMIDT 2004/03/31 APPR: FSMITH 2004/03/31 REV L1	QUALITY SYMBOLS 0 0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES ±</td> <td>---</td> <td>---</td> </tr> <tr> <td>3 PLACES ±</td> <td>---</td> <td>±.010</td> </tr> <tr> <td>2 PLACES ±</td> <td>0.25</td> <td>±.014</td> </tr> <tr> <td>1 PLACE ±</td> <td>0.36</td> <td>---</td> </tr> <tr> <td colspan="3">ANGULAR ±1/2°</td> </tr> </table> DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		mm	INCH	4 PLACES ±	---	---	3 PLACES ±	---	±.010	2 PLACES ±	0.25	±.014	1 PLACE ±	0.36	---	ANGULAR ±1/2°			SCALE 4:1 DESIGN UNITS INCH DIMENSION STYLE IN/MM DRAWN BY JTR DATE 1993/03/31 CHECKED BY JTR DATE 1993/03/31 APPROVED BY RAS DATE 1993/03/31	THIRD ANGLE PROJECTION REVISE ON CAD ONLY TITLE ULTRA LOW PROFILE RIGHT ANGLE MODULAR JACK ASSEMBLY MOLEX MOLEX INCORPORATED MATERIAL NO. SEE SHT 5 DOCUMENT NO. SDA-43202 SHEET NO. 2 OF 9
		mm	INCH																			
	4 PLACES ±	---	---																			
	3 PLACES ±	---	±.010																			
2 PLACES ±	0.25	±.014																				
1 PLACE ±	0.36	---																				
ANGULAR ±1/2°																						
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																						
SEE SHEET ONE																						
REV L1																						

	13	12	11	10	9	8	7	6	5	4	3	2	43202		
J	SHIELDED MODULAR JACKS W/BOTTOM GROUND TABS (SHEET 2)														J
	ASSEMBLY MATERIAL NUMBER	CONNECTOR SIZE	NUMBER OF CIRCUITS	SIDE/TOP PANEL GROUND TAB OPTION	PCB GROUND TAB OPTION	TERMINAL PLATING OPTION	PACKAGING OPTION	HOUSING COLOR							
I	43202-8900	8	10	A	FRONT POSITION	A	TRAY	BLACK							
	43202-8901	8	10	B	FRONT POSITION	A	TRAY								
	43202-8902	8	10	C	FRONT POSITION	A	TRAY								
	43202-8903	8	10	D	FRONT POSITION	A	TRAY								
	43202-8908	8	10	A	REAR POSITION	A	TRAY								
H	43202-8909	8	10	B	REAR POSITION	A	TRAY								
	43202-8910	8	10	C	REAR POSITION	A	TRAY								
	43202-8911	8	10	D	REAR POSITION	A	TRAY								
	43202-8916	8	8	A	FRONT POSITION	A	TRAY								
	43202-8917	8	8	B	FRONT POSITION	A	TRAY								
G	43202-8918	8	8	C	FRONT POSITION	A	TRAY								
	43202-8919	8	8	D	FRONT POSITION	A	TRAY								
	43202-8924	8	8	A	REAR POSITION	A	TRAY								
	43202-8925	8	8	B	REAR POSITION	A	TRAY								
	43202-8926	8	8	C	REAR POSITION	A	TRAY								
	43202-8927	8	8	D	REAR POSITION	A	TRAY								
F															
E															
D															
C															
B															
A															
SEE SHEET 1 EC NO: UCP2004-1347 DRWN:MKAMARA0004/02/09 CHKD:MKAMARA0004/02/09 APPR:BWIKJUS 2004/02/10															
QUALITY SYMBOLS															
GENERAL TOLERANCES (UNLESS SPECIFIED)															
SCALE 4:1 DESIGN UNITS INCH															
THIRD ANGLE PROJECTION															
REVISE ON CAD ONLY															
TITLE															
ULTRA LOW PROFILE RIGHT ANGLE MODULAR JACK ASSEMBLY															
MOLEX INCORPORATED															
APPROVED BY DATE MATERIAL NO. DOCUMENT NO. SHEET NO.															
RAS 1993/03/18 SEE CHART SDA-43202 5 OF 9															
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
ib_frame_C_P_ME_T Rev. C 2002/05/05															
	12	11	10	9	8	7	6	5	4	3	2	1			

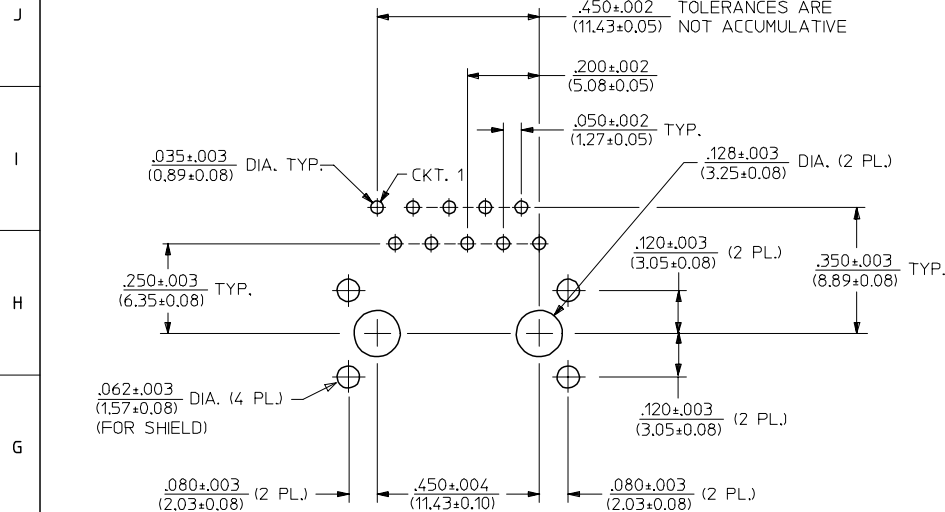
SEE SHEET 1
EC NO: UCP2004-1347
DRWN:MKAMARA0004/02/09
CHKD:MKAMARA0004/02/09
APPR:BMWKUS 2004/02/10

QUALITY SYMBOLS
▽ - 0
▽ - 0

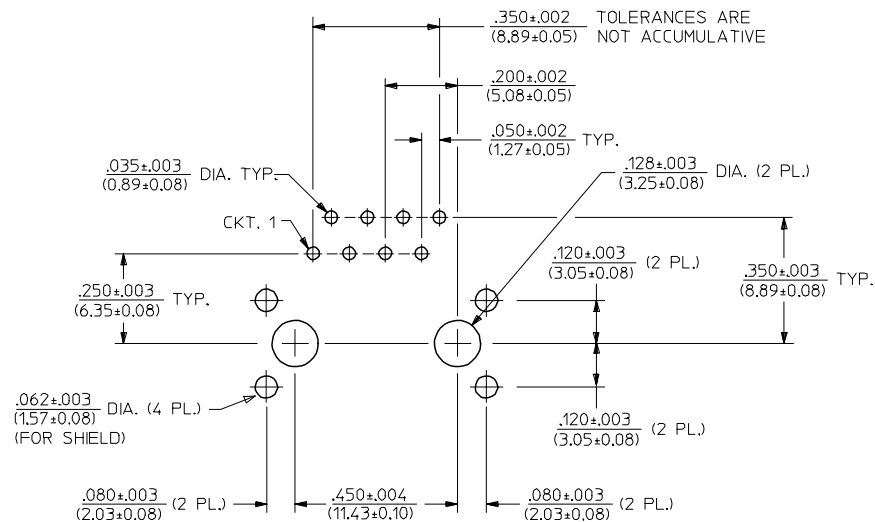
GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± .010
2 PLACES ± 0.25 ± .014
1 PLACE ± 0.36 ± ---
ANGULAR ±1/2°
DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

SCALE 4:1
DESIGN UNITS INCH
DIMENSION STYLE IN/MM
DRAWN BY JTR DATE 1993/03/18
CHECKED BY JTR DATE 1993/03/18
APPROVED BY RAS DATE 1993/03/18
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

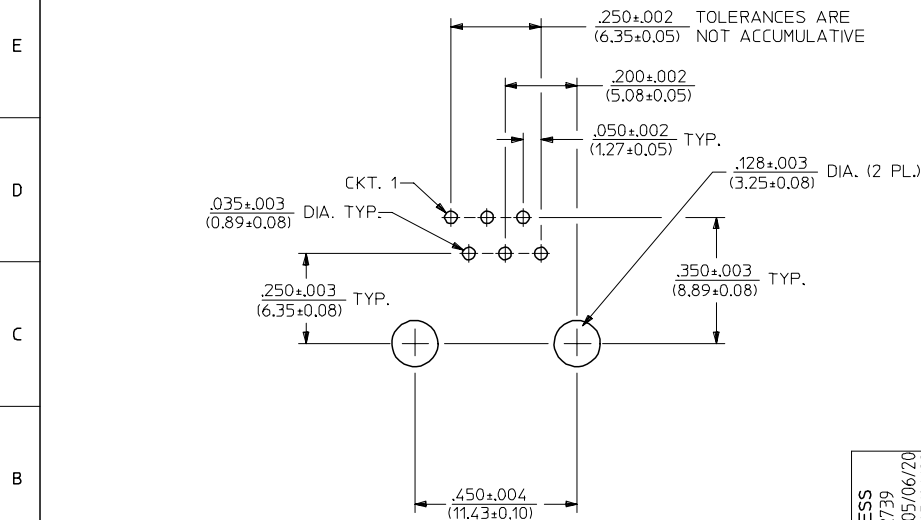
THIRD ANGLE PROJECTION
REVISE ON CAD ONLY
TITLE
ULTRA LOW PROFILE
RIGHT ANGLE MODULAR JACK
ASSEMBLY
molex MOLEX INCORPORATED
MATERIAL NO. SEE CHART
DOCUMENT NO. SDA-43202
SHEET NO. 5 OF 9



PC BOARD LAYOUT FOR 8 POSITION HOUSING
(10 CIRCUIT FOOTPRINT SHOWN)
(COMPONENT SIDE OF BOARD)



PC BOARD LAYOUT FOR 8 POSITION HOUSING
(8 CIRCUIT FOOTPRINT SHOWN)
(COMPONENT SIDE OF BOARD)



PC BOARD LAYOUT FOR 8 POSITION HOUSING
(6 CIRCUIT FOOTPRINT SHOWN)
(COMPONENT SIDE OF BOARD)

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

ADD PCB THICKNESS EC NO: UCP2005-2739 DRWN:LSCHMIDT 2005/06/20 CHKD:ELHAG 2005/06/22 APPR:FSMTH 2005/06/23	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		REVISE ON CAD ONLY		
							DIMENSION STYLE		TITLE			
							IN/MM		ULTRA LOW PROFILE RIGHT ANGLE MODULAR JACK ASSEMBLY			
			4 PLACES ±---		±---		DRAWN BY		DATE		MOLEX MOLEX INCORPORATED	
			3 PLACES ±---		±.010		L.E.LENZ		1995/03/09			
			2 PLACES ±0.25		±.014		CHECKED BY		DATE			
			1 PLACE ±0.36		±---		JTR		1995/03/09			
			ANGULAR ±1/2°				APPROVED BY		DATE		MATERIAL NO.	
			DRAFT WHERE APPLICABLE				RAS		1995/03/09		DOCUMENT NO.	
											SEE SHTS 5&6	
								SDA-43202				
								SHEET NO. 9 OF 9				

ADD PCB THICKNESS
EC NO: UCP2005-2739
DRAWN: SCHMIDT 2005/06/20
CHKD: ELHAG 2005/06/22
APPR: FSMITH 2005/06/23
REV L2