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Part Number: [0432028924](#)
Status: **Active**
Overview: [modular_plugs_jacks](#)
Description: Modular Jack, Right Angle, Low Profile, Shielded, No Panel Grounding Tabs, with Bottom Grounding Tab, Rear Position PCB Ground Tab, 8/8

Documents:

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

Agency Certification

CSA LR19980
UL E107635

General

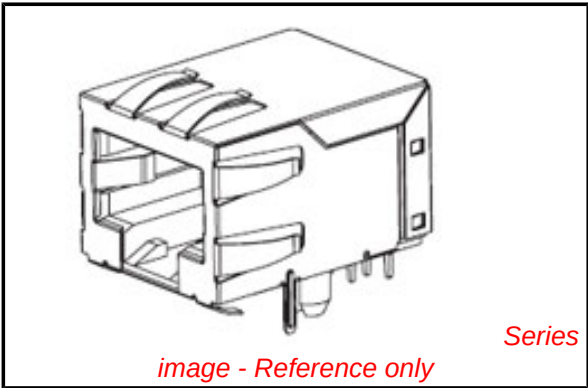
Product Family Modular Jacks/Plugs
Series [43202](#)
Comments Enhanced panel grounding tabs
Component Type PCB Jack
Magnetic No
Overview [modular_plugs_jacks](#)
Performance Category 3
Power over Ethernet (PoE) N/A
Product Name RJ45

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
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 8/8
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
Grounding to PCB Yes



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
[43202Series](#)

Mates With
FCC 68 Plugs

Grounding to Panel	None
Shielded	Yes
Voltage - Maximum	125V

Solder Process Data

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

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.

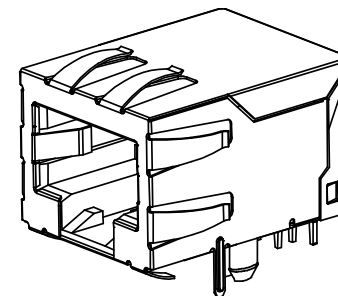
4) PACKAGING SPECIFICATION:

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

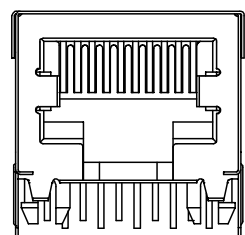
OBS COLORED JACKS EC NO: UCP2008-1189 DRAWN:JBELL 2007/11/30 CHKD:LSCHMIDT 2008/02/20 APPR:FSM1TH 2008/03/04	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY JTR	DATE 1993/03/31	TITLE ULTRA LOW PROFILE RIGHT ANGLE MODULAR JACK ASSEMBLY molex MOLEX INCORPORATED					
			4 PLACES	±---	±---	CHECKED BY JTR	DATE 1993/03/31						
			3 PLACES	±---	±.010	APPROVED BY RAS	DATE 1993/03/31						
			2 PLACES	±0.25	±.014	MATERIAL NO.	DOCUMENT NO.						
			1 PLACE	±0.36	±---	SEE SHTS 5&6							SDA-43202
				ANGULAR ±1/2°		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			
										SHEET NO. 1 OF 9			

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

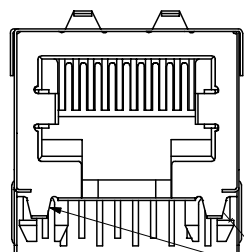
SHIELDED MODULAR JACK W/BOTTOM GROUND TABS

SIZE 8 LOADED 10 VERSION SHOWN

SIDE/TOP GROUND TAB OPTIONS FOR SHIELDS



OPTION "A"
NO TOP OR SIDE TABS

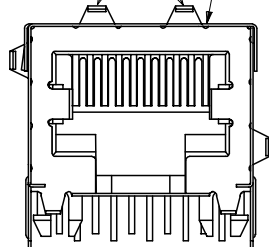


OPTION "B"
TOP TABS

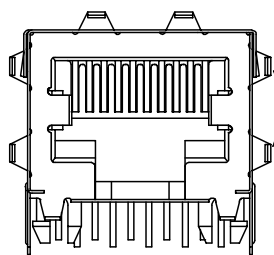
—BOTTOM
GROUND TABS

OPTIONAL TOP GROUND TABS

- SHIELDED MODULAR JACK ASSEMBLY
SEE SHEET 5 FOR MATERIAL NO.

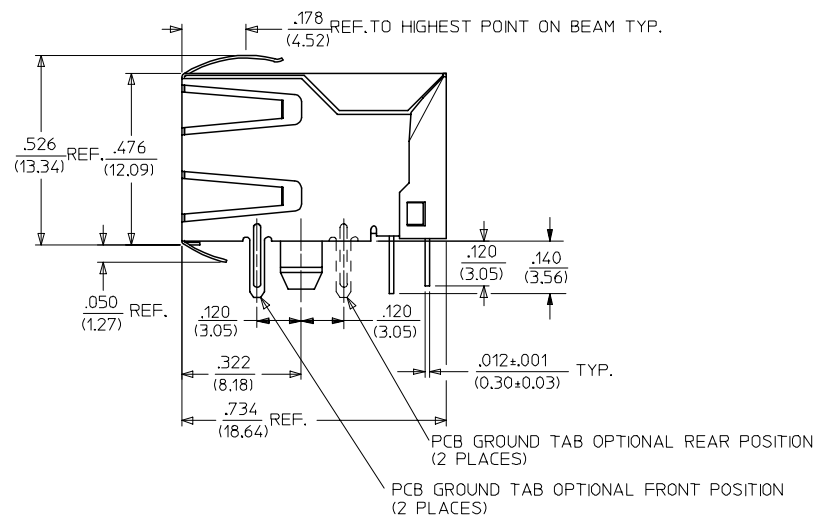


OPTION "C"
TOP AND STAGGERED SIDE TABS

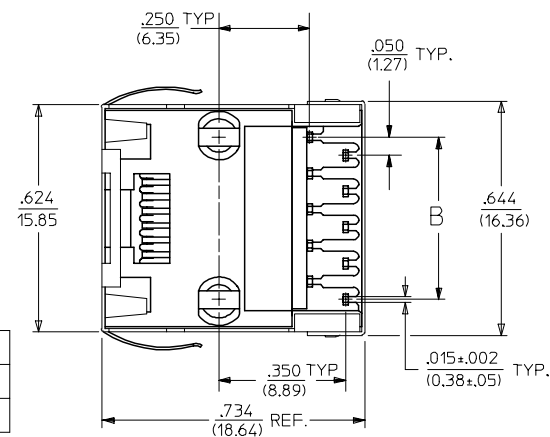


OPTION "D"
TOP AND SIDE TABS

~~OPTIONAL SIDE
GROUND TABS
(2 PLACES)~~



PCB GROUND TAB OPTIONAL FRONT POSITION
(2 PLACES)



$\frac{.050}{(1.27)}$ TYP.

$\frac{.015 \pm .002}{(.038 \pm .05)}$ TYP.

Technical drawing of a panel cut-out showing dimensions and tolerances:

- Overall width: $.645 \pm .005$ (16.38 $\pm$ 0.13)
- Overall height: $.500 \pm .005$ (12.7 $\pm$ 0.13)
- Top edge: $.015$ R TYP (0.38)
- Bottom edge: $.010 \pm .005$ (0.25 $\pm$ 0.13)
- Labels: "PANEL", "TOP OF P.C. BOARD", "PANEL CUT-OUT", "(SHIELDED W/BOTTOM GROUND TABS)"

- PANEL

$$\frac{.015}{(0.38)} R \text{ TYP}$$

TOP OF P.C.
BOARD

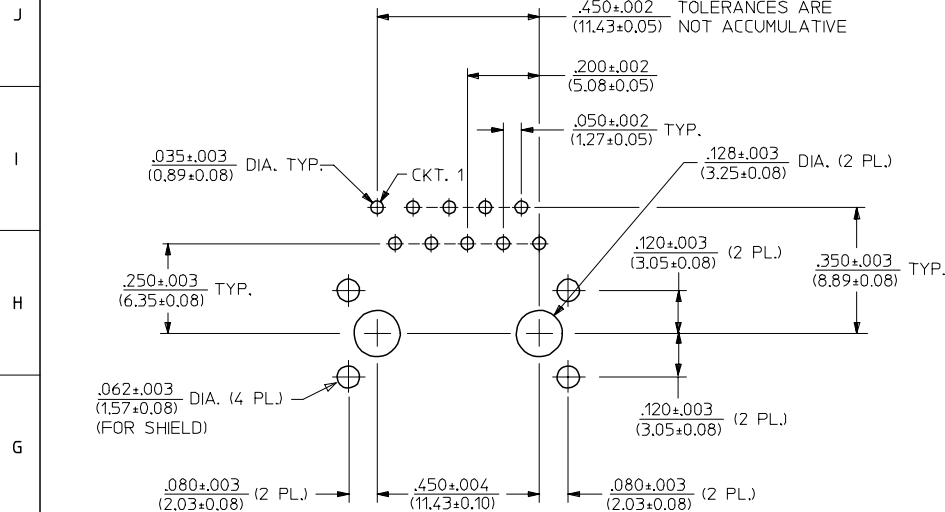
$$\frac{.500 \pm .005}{(12.7 \pm 0.13)}$$
$$\frac{.010 \pm .005}{(0.25 \pm 0.13)}$$

PANEL CUT-OUT
(SHIELDED W/BOTTOM GROUND TABS)

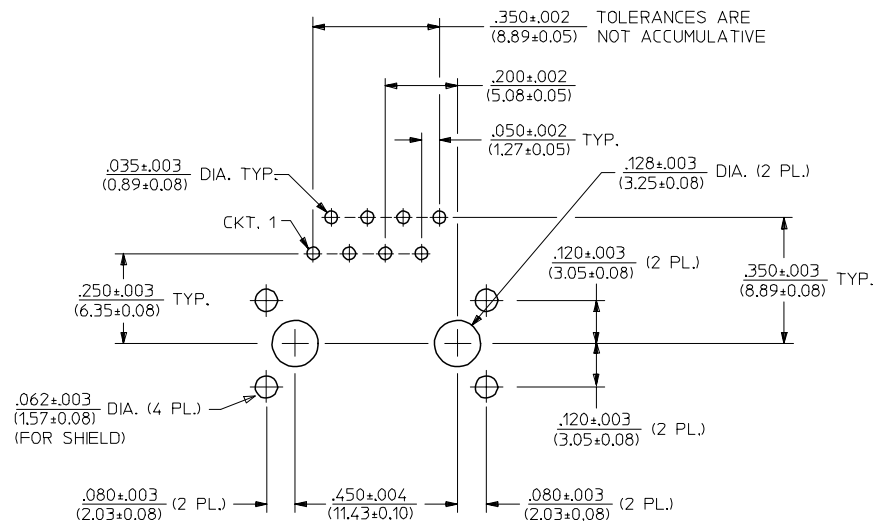
HOUSING SIZE	CIRCUIT SIZE	B
8	10	$\frac{.450 \pm .005}{11.43 \pm .13}$
8	8	$\frac{.350 \pm .005}{8.89 \pm .11}$

SEE SHEET ONE	EC NO: UCP2004-1888	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 4:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION	REVISE ON CAD ONLY		
				mm	INCH	DIMENSION STYLE		TITLE			
						IN/MM		ULTRA LOW PROFILE RIGHT ANGLE MODULAR JACK ASSEMBLY			
	▼ - 0			4 PLACES ± --- ± ---		DRAWN BY JTR	DATE 1993/03/31	molex MOLEX INCORPORATED			
				3 PLACES ± --- ± .010		CHECKED BY JTR	DATE 1993/03/31				
	▽ - 0			2 PLACES ± 0.25 ± .014				MATERIAL NO.	DOCUMENT NO.	SHEET NO.	
				1 PLACE ± 0.36 ± ---				SEE SHT 5	SDA-43202	2 OF 9	
							ANGULAR ± 1/2°				
							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			

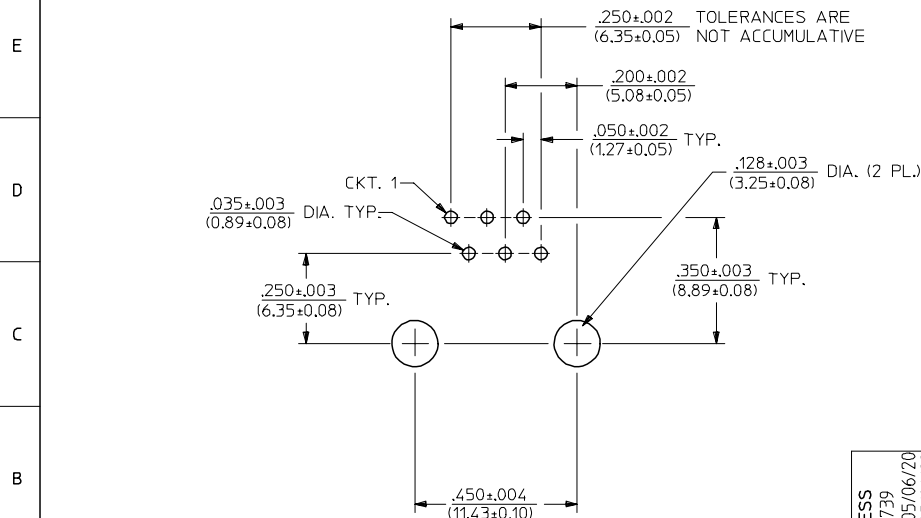
	13	12	11	10	9	8	7	6	5	4	3	2	43202		
J	SHIELDED MODULAR JACKS W/BOTTOM GROUND TABS (SHEET 2)														J
	ASSEMBLY MATERIAL NUMBER	CONNECTOR SIZE	NUMBER OF CIRCUITS	SIDE/TOP PANEL GROUND TAB OPTION	PCB GROUND TAB OPTION	TERMINAL PLATING OPTION	PACKAGING OPTION	HOUSING COLOR							
I	43202-8900	8	10	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														F	
E														E	
D														D	
C														C	
B														B	
A														A	
SEE SHEET 1 EC NO: UCP2004-1347 DRWN:MKAMARA0004/02/09 CHKD:MKAMARA0004/02/09 APPR:BMWKUS 2004/02/10 REV QUALITY SYMBOLS ▽-0 ▽-0 DESCRIPTION GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ±.000 ±.000 3 PLACES ±.000 ±.010 2 PLACES ±.025 ±.014 1 PLACE ±0.36 ±.000 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															
1b_frame_C_P_ME_T	12	11	10	9	8	7	6	5	4	3	2	1			
Rev. C 2002/05/05															



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		DRAWN: SCHMIDT 2005/06/20		CHKD: ELHAS 2005/06/22		APPR: FSMTH 2005/06/23		REVISION			
QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)				SCALE 4:1		DESIGN UNITS INCH		THIRD ANGLE PROJECTION		REVISE ON CAD ONLY	
▽ - 0 ▽ - 0		mm		INCH		DIMENSION STYLE IN/MM				TITLE			
		4 PLACES ± ---		± ---		DRAWN BY L.E. LENZ				DATE 1995/03/09			
		3 PLACES ± ---		± .010		CHECKED BY JTR				DATE 1995/03/09			
		2 PLACES ± 0.25		± .014		APPROVED BY RAS				DATE 1995/03/09			
		1 PLACE ± 0.36		± ---		MATERIAL NO. SEE SHTS 5&6				DOCUMENT NO. SDA-43202			
ANGULAR ±1/2°		DRAFT WHERE APPLICABLE				SHEET NO. 9 OF 9				MATERIAL NO. SEE SHTS 5&6			
MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				MATERIAL NO. SEE SHTS 5&6				DOCUMENT NO. SDA-43202			