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Part Number: [0432238176](#)
Status: **Active**
Overview: [modular_plugs_jacks](#)
Description: Modular Jack, Right Angle, Low Profile, 8/8, 8 Ports

Documents:
[3D Model](#) [Product Specification PS-43223-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
UL E107635

General

Product Family Modular Jacks/Plugs
Series [43223](#)
Comments Flush Mount|Flangeless|External Shield
Component Type PCB Jack
Magnetic No
Overview [modular_plugs_jacks](#)
Performance Category 3, 4
Power over Ethernet (PoE) N/A
Product Name RJ45

Physical

Boot Color N/A
Color - Resin Black
Durability (mating cycles max) 500
Flammability 94V-0
Inverted / Top Latch No
Lightpipes/LEDs None
Material - Metal Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
Orientation Right Angle (Side Entry)
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.062 In
PCB Thickness Recommended (mm) 1.57 mm
Packaging Type Tray
Pitch - Mating Interface (in) 0.040 In
Pitch - Mating Interface (mm) 1.02 mm
Pitch - Term. Interface (in) 0.050 In
Pitch - Term. 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 8
Positions / Loaded Contacts 8/8
Surface Mount Compatible (SMC) No
Temperature Range - Operating -40°C to +85°C
Termination Interface: Style Through Hole
Waterproof / Dustproof No
Wire/Cable Type N/A

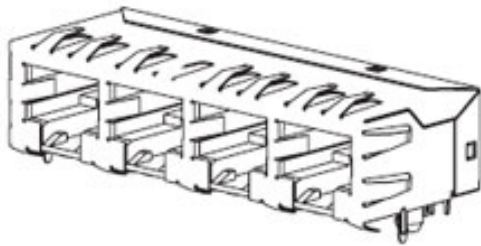


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Not Reviewed
**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
[43223Series](#)

Mates With
FCC 68 Plugs

Electrical

Current - Maximum per Contact	1.5A
Shielded	No
Voltage - Maximum	150V AC (RMS)

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

Old Part Number	A432238176
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Reference - Drawing Numbers

Product Specification	PS-43223-001
Test Summary	TS-43223-001

This document was generated on 06/07/2010

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NOTES:

1) MATERIAL:

HOUSING: GLASS FILLED NYLON, UL94V-0, COLOR: BLACK
INSULATOR: GLASS FILLED NYLON, UL94V-0, COLOR: BLACK
TERMINALS: PHOSPHOR BRONZE: .012/(0,30) THICK

2) FINISH:

TERMINALS:

SELECT GOLD IN CONTACT AREA: 50 MICROINCHES MIN.,
*SELECT TIN IN PC TAIL AREA: 100 MICROINCHES MIN.,
WITH OVERALL NICKEL UNDERPLATE: 50 MICROINCHES 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 TAIL AREA.

3) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: PS-43223-001.

4) ASSEMBLIES TO BE PACKAGED IN TRAYS, UNLESS OTHERWISE SPECIFIED.

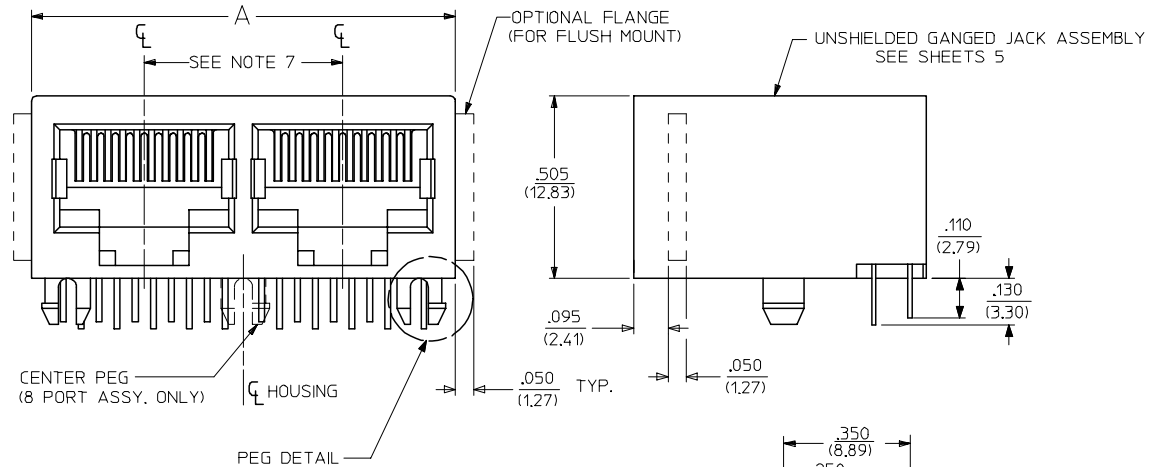
5) SEE SHEETS 7-9 FOR P.C. BOARD LAYOUTS.

6) SEE SHEET 3 FOR THE SHIELDED JACK ASSEMBLY.

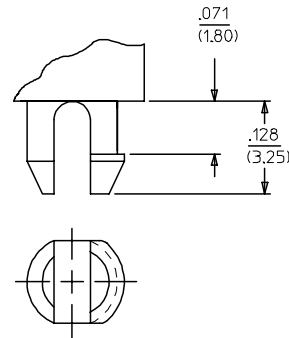
7) FOR 6 CIRCUIT JACKS CENTERLINE TO CENTERLINE SPACING IS .448/(11,38).

FOR 8 CIRCUIT JACKS CENTERLINE TO CENTERLINE SPACING IS .550/(13,97).

8) ALL UNTOLERANCED DIMENSIONS ARE SHOWN FOR REFERENCE ONLY.



2 PORT 8 LOADED 10 JACK
W/ SNAP-FIT PEGS SHOWN



PEG DETAIL
SCALE: 8:1

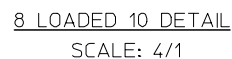
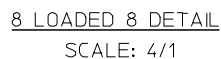
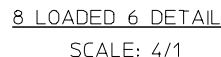
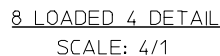
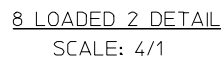
ADD PCB THICKNESS EC NO: UCP2005-2739 DRW:LSCHMDT 2005/06/20 CHKD:ELHAG 2005/06/22 APPR:FSMTH 2005/06/23 J1	QUALITY SYMBOLS DESCRIPTION REV	 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 4:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION	REVISE ON CAD ONLY		
				mm	INCH	DIMENSION STYLE IN/MM		TITLE LOW PROFILE GANGED,RIGHT ANGLE MODULAR JACK ASSEMBLY		
			4 PLACES	± ---	± ---	DRAWN BY JTR			DATE 10/18/1993	MOLEX MOLEX INCORPORATED
			3 PLACES	± ---	± ---					
			2 PLACES	± ---	± ---	CHECKED BY JTR			DATE 10/18/1993	
1 PLACE	± ---	± ---								
			ANGULAR ±1/2°							
			DRAFT WHERE APPLICABLE		APPROVED BY RAS	DATE 10/18/1993				
			MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

6 CIRCUIT HOUSING

CIRCUIT SIZE	NO. OF PORTS	DIM. A	DIM. C	DIM. D
6	2	.985 (25,02)	.250 (6,35)	.848 (21,54)
4	2	.985 (25,02)	.150 (3,81)	.848 (21,54)
2	2	.985 (25,02)	.050 (1,27)	.848 (21,54)
6	3	1.433 (36,40)	.250 (6,35)	1.296 (32,92)
4	3	1.433 (36,40)	.150 (3,81)	1.296 (32,92)
2	3	1.433 (36,40)	.050 (1,27)	1.296 (32,92)
6	4	1.881 (47,78)	.250 (6,35)	1.744 (44,30)
4	4	1.881 (47,78)	.150 (3,81)	1.744 (44,30)
2	4	1.881 (47,78)	.050 (1,27)	1.744 (44,30)
6	5	2.329 (59,16)	.250 (6,35)	2.192 (55,68)
4	5	2.329 (59,16)	.150 (3,81)	2.192 (55,68)
2	5	2.329 (59,16)	.050 (1,27)	2.192 (55,68)
6	6	2.777 (70,54)	.250 (6,35)	2.640 (67,06)
4	6	2.777 (70,54)	.150 (3,81)	2.640 (67,06)
2	6	2.777 (70,54)	.050 (1,27)	2.640 (67,06)
6	8	3.673 (93,29)	.250 (6,35)	3.536 (89,81)
4	8	3.673 (93,29)	.150 (3,81)	3.536 (89,81)
2	8	3.673 (93,29)	.050 (1,27)	3.536 (89,81)

8 CIRCUIT HOUSING

CIRCUIT SIZE	NO. OF PORTS	DIM. A	DIM. C	DIM. D
10	2	1.200 (30,48)	.450 (11,43)	1.000 (25,40)
8	2	1.200 (30,48)	.350 (8,89)	1.000 (25,40)
6	2	1.200 (30,48)	.250 (6,35)	1.000 (25,40)
10	3	1.750 (44,45)	.450 (11,43)	1.550 (39,37)
8	3	1.750 (44,45)	.350 (8,89)	1.550 (39,37)
6	3	1.750 (44,45)	.250 (6,35)	1.550 (39,37)
4	3	1.750 (44,45)	.150 (3,81)	1.550 (39,37)
10	4	2.300 (58,42)	.450 (11,43)	2.100 (53,34)
8	4	2.300 (58,42)	.350 (8,89)	2.100 (53,34)
4	4	2.300 (58,42)	.150 (3,81)	2.100 (53,34)
4	5	2.850 (72,39)	.150 (3,81)	2.650 (67,31)
10	5	2.850 (72,39)	.450 (11,43)	2.650 (67,31)
8	5	2.850 (72,39)	.350 (8,89)	2.650 (67,31)
10	6	3.400 (86,36)	.450 (11,43)	3.200 (81,28)
8	6	3.400 (86,36)	.350 (8,89)	3.200 (81,28)
10	8	4.500 (114,30)	.450 (11,43)	4.300 (109,22)
8	8	4.500 (114,30)	.350 (8,89)	4.300 (109,22)



SUGGESTED P.C. BOARD LAYOUT
COMPONENT SIDE OF BOARD
8 PORT, 8 LOADED 8
(SNAP-FIT & PRESS-FIT VERSIONS)

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

ADD PCB THICKNESS EC NO: UCP2005-2739 DRAWN: SCHMIDT 2005/06/20 CHKD: ELHAG 2005/06/22 APPR: FSMITH 2005/06/23	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		REVISE ON CAD ONLY			
				mm	INCH	2:1	INCH						
			 0  0	4 PLACES	± ---	± ---	DIMENSION STYLE		TITLE		LOW PROFILE RIGHT ANGLE GANGED MODULAR JACK ASSEMBLY		
				3 PLACES	± ---	± .005	IN/MM						
				2 PLACES	± ---	± .01	DRAWN BY		DATE				
				1 PLACE	± 0.25	± ---	JTR		10/12/1993				
				ANGULAR			± 1/2°		CHECKED BY		DATE		
			DRAFT WHERE APPLICABLE			JTR		10/12/1993		MOLEX MOLEX INCORPORATED			
			MUST REMAIN WITHIN DIMENSIONS			APPROVED BY		DATE		MATERIAL NO.		DOCUMENT NO.	
						RAS		10/12/1993		SEE SHT 5,6		SDA-43223	
									SHEET NO.				
									8 OF 9				
									C				