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Part Number: [0446201008](#)
Status: **Active**
Overview: [modular_plugs_jacks](#)
Description: Modular Jack, Right Angle, Low Profile, Inverted, 8/8

Documents:
[Drawing \(PDF\)](#) [Application Specification \(PDF\)](#)
[Packaging Specification \(PDF\)](#) [Product Specification PS-43860-003 \(PDF\)](#)
[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

UL E107635

General

Product Family Modular Jacks/Plugs
Series [44620](#)
Comments RJ-11 Keepout Feature, Lightpipes
Component Type PCB Jack
Magnetic No
Overview [modular_plugs_jacks](#)
Performance Category 3
Power over Ethernet (PoE) N/A
Product Name RJ45

Physical

Boot Color N/A
Color - Resin Black, Clear
Durability (mating cycles max) 500
Flammability 94V-0
Inverted / Top Latch Yes
Keying to Mating Part None
Lightpipes/LEDs Lightpipes
Material - Metal Brass, Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic, Polysulfone
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
Panel Mount Without Flange
Pitch - Mating Interface (in) 0.040 In
Pitch - Mating Interface (mm) 1.02 mm
Pitch - Term. Interface (in) 0.040 In
Pitch - Term. Interface (mm) 1.02 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) No
Temperature Range - Operating -40°C to +85°C
Termination Interface: Style Through Hole

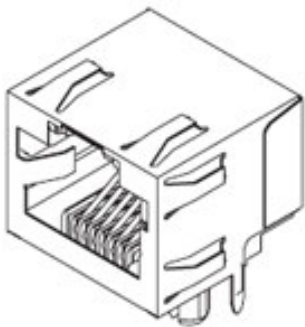


image - Reference only

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.

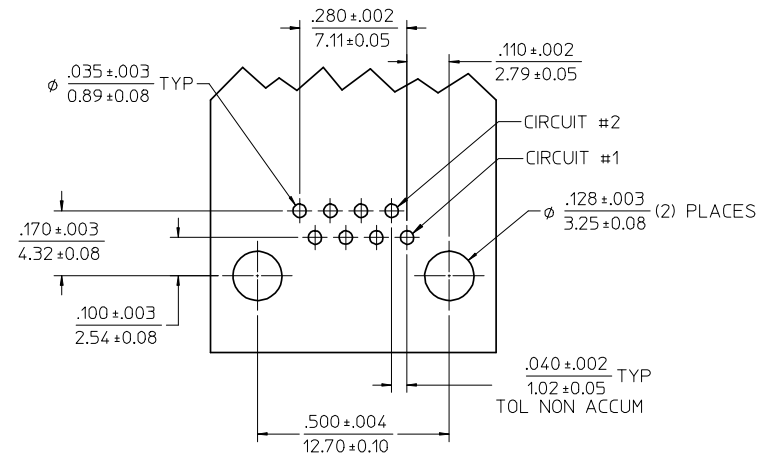
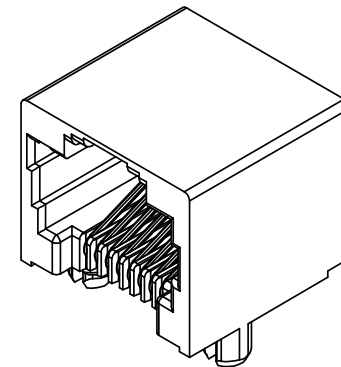
Search Parts in this Series
[44620Series](#)

Mates With
FCC 68 Plugs

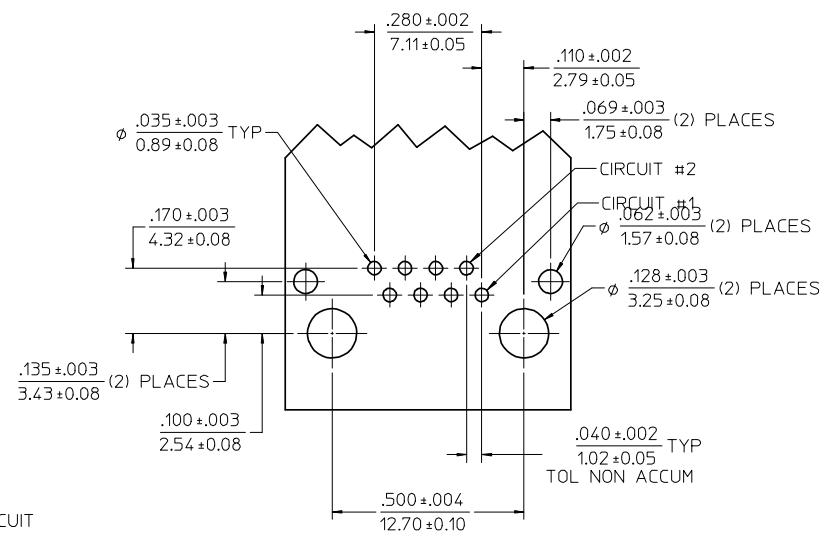
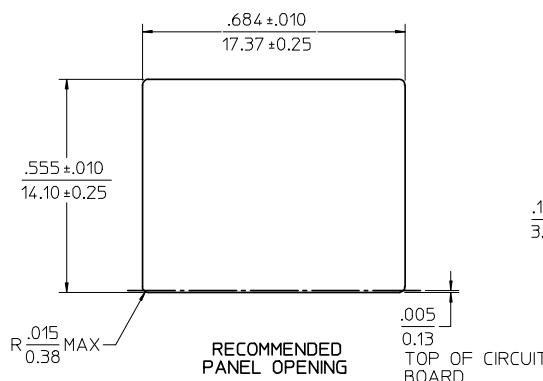
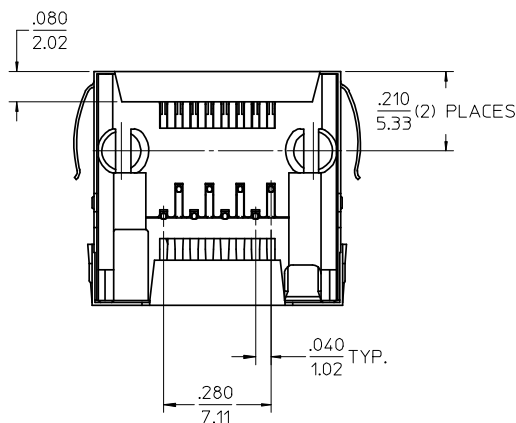
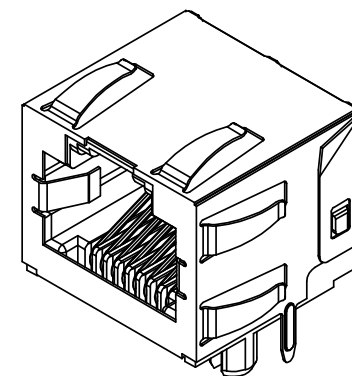
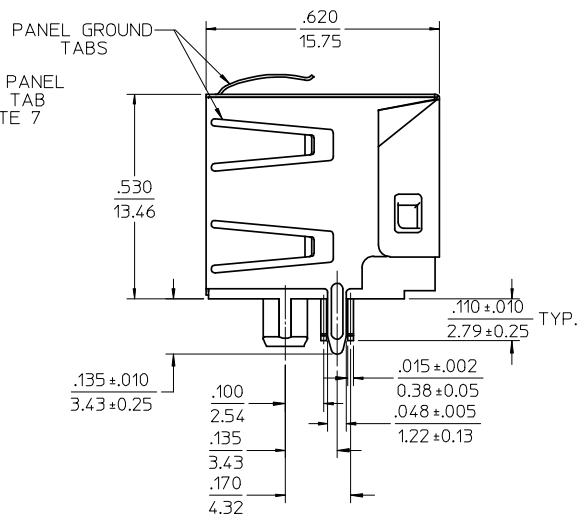
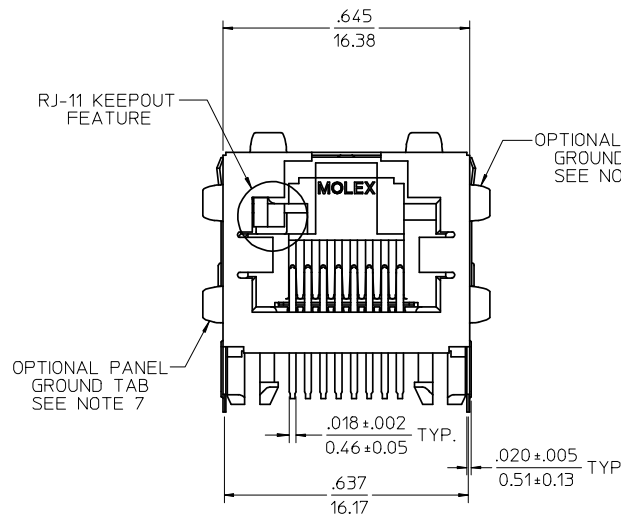
Waterproof / Dustproof	No
Wire/Cable Type	N/A
Electrical	
Current - Maximum per Contact	1.5A
Grounding to PCB	Yes
Grounding to Panel	With All Panel Grounding Tabs
Shielded	Yes
Voltage - Maximum	150V AC (RMS)
Solder Process Data	
Lead-free Process Capability	Wave Capable (TH only)
Material Info	
Reference - Drawing Numbers	
Application Specification	AS-43860-001
Packaging Specification	PK-43860-005
Product Specification	PS-43860-003, RPS-43860-004, RPS-43860-007, RPS-43860-008, RPS-43860-013
Sales Drawing	SD-44620-001
Test Summary	TS-43860-001

This document was generated on 05/24/2010

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ADD NOTE 7 EC NO: UCP2008-0965 DRWN: IBELL 2007/11/08 CHK: DLSCHM/DT 2007/12/04 APPR: FSMITH 2007/12/05	DESCRIPTION	QUALITY SYMBOLS = 0 = 0	GENERAL TOLERANCES (UNLESS SPECIFIED) <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>± ---</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td colspan="3">ANGULAR ±1/2°</td> </tr> </tbody> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± ---	± ---	1 PLACE	± ---	± ---	ANGULAR ±1/2°			DIMENSION STYLE IN/MM DRAWN BY DATE MKAMAR 00/03/07 CHECKED BY DATE MKAMAR 00/03/07 APPROVED BY DATE JROBERTS 00/03/07	SCALE 4:1 TITLE RJ-45 INVERTED MODULAR JACK ASSEMBLY WITH RJ-11 KEEPOUT FEATURE	DESIGN UNITS INCH	THIRD ANGLE PROJECTION
		mm	INCH																						
	4 PLACES	± ---	± ---																						
	3 PLACES	± ---	± ---																						
	2 PLACES	± ---	± ---																						
1 PLACE	± ---	± ---																							
ANGULAR ±1/2°																									
REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. 446200001	DOCUMENT NO. SD-44620-001	SHEET NO. 1 OF 4																				
			SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																					



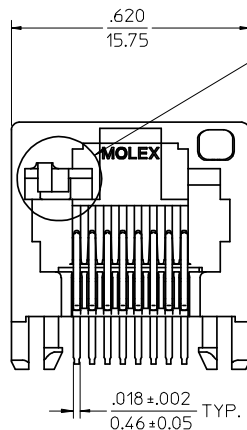
- NOTES:
- 1) MATERIAL:
HOUSING: NYLON(PA), GLASS FILLED, UL94V-0, COLOR: BLACK
TERMINALS: PHOSPHOR BRONZE
SHIELD: BRASS
 - 2) FINISH:
TERMINALS:
SELECT GOLD IN CONTACT AREA: 50 MICROINCHES (1.27 MICROMETERS) MIN.,
*SELECT TIN IN PC TAIL AREA: 100 MICROINCHES (2.54 MICROMETERS) MIN.,
WITH OVERALL NICKEL UNDERPLATE: 50 MICROINCHES (1.27 MICROMETERS) MIN.
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-43860-003.
 - 4) PACKAGING SPECIFICATION:
CONNECTOR ASSEMBLIES PACKAGED IN THERMOFORMED TRAYS PER MOLEX PACKAGING SPECIFICATION PK-43860-005.
 - 5) ALL UNTOLERANCED DIMENSIONS ARE SHOWN FOR REFERENCE ONLY.
 - 6) CONFORMS TO FCC REGULATION PART 68.5 FOR MODULAR JACKS.
 - 7) AVAILABLE WITH THE (2) SPECIFIED PANEL GROUND TABS OMITTED FOR SIDE TO SIDE STACKABILITY, PER THE ASSEMBLY MATERIAL NUMBER TABLE.
 - 8) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

ADD NOTE 8	EC NO: UCP2008-0965	2007/11/08	2007/12/04	2007/12/05
	DRWN: BELL	CHKD: LSCMIDT	APPR: FSMITH	REV
	DESCRIPTION	QUALITY SYMBOLS	DESCRIPTION	QUALITY SYMBOLS
	D2	▽=0	▽=0	▽=0

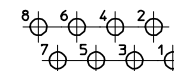
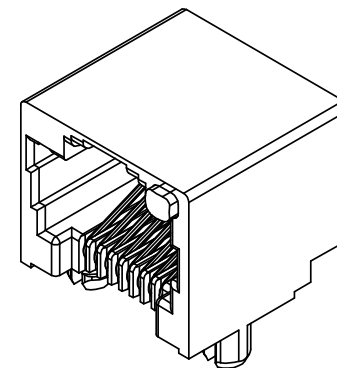
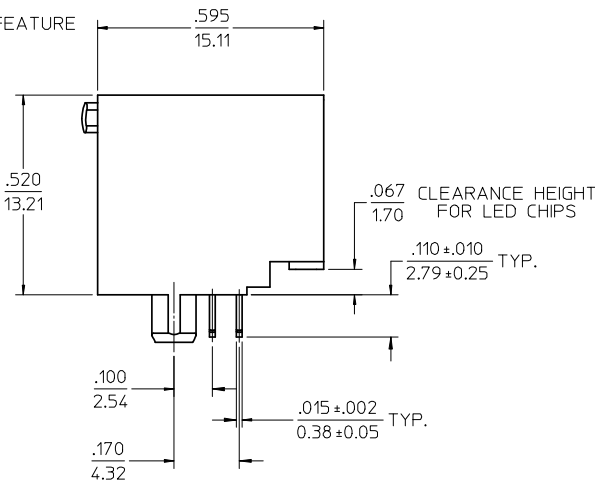
GENERAL TOLERANCES (UNLESS SPECIFIED)	
mm	INCH
4 PLACES ± ---	± ---
3 PLACES ± ---	± ---
2 PLACES ± ---	± ---
1 PLACE ± ---	± ---
ANGULAR ± 1/2°	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE	
IN/MM	DATE
DRAWN BY	00/03/07
CHECKED BY	DATE
APPROVED BY	DATE
MATERIAL NO.	00/03/07
DOCUMENT NO.	00/03/07

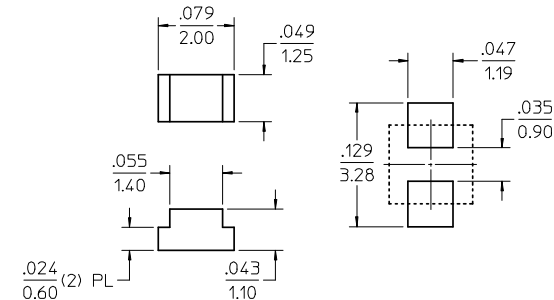
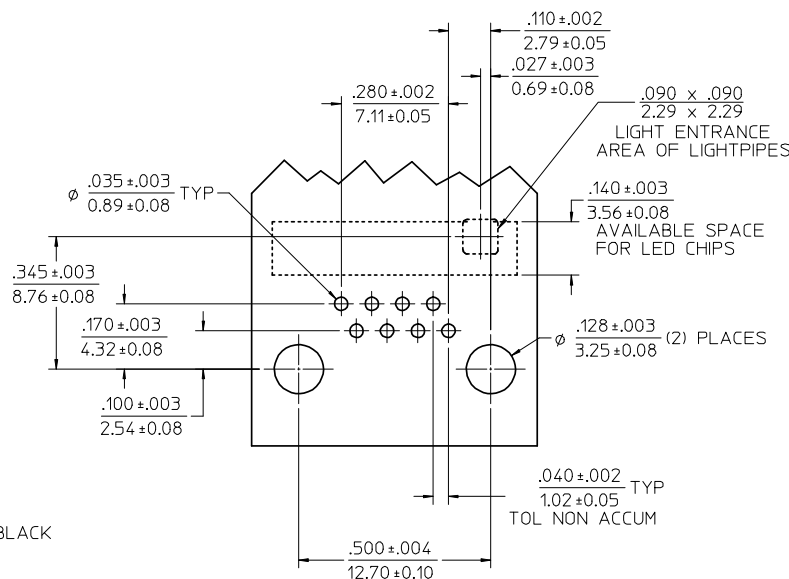
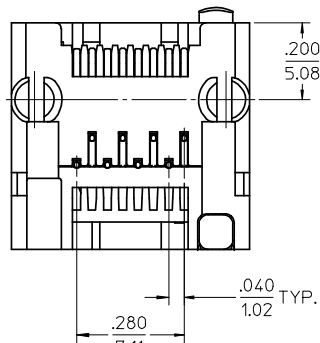
SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
4:1	INCH	THIRD ANGLE PROJECTION
RJ-45 INVERTED MODULAR JACK ASSEMBLY WITH RJ-11 KEEPOUT FEATURE		
MOLEX INCORPORATED		
SEE CHART	SD-44620-001	SHEET NO. 2 OF 4
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RJ-11 KEEPOUT FEATURE



TYPICAL PC TERMINAL HOLE LAYOUT
SCALE 5:1



RECOMMENDED SMT
LED SOLDER PATTERN
SCALE 10:1
(SEE NOTE 8)

NOTES:

- 1) MATERIAL:
HOUSING: NYLON(PA), GLASS FILLED, UL94V-0, COLOR: BLACK
TERMINALS: PHOSPHOR BRONZE
LIGHT PIPES:
POLYCARBONATE-WAVE OR HAND SOLDER ONLY (NOT DESIGNED FOR I/R REFLOW OR CONVECTION REFLOW SOLDER PROCESSES)
POLYSULFONE-MAXIMUM REFLOW TEMPERATURE: 400°F (205°C)
- 2) FINISH:
TERMINALS:
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.
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CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD IN THE PC TAILS.
- 3) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: PS-43860-003.
- 4) PACKAGING SPECIFICATION:
CONNECTOR ASSEMBLIES PACKAGED IN EXTRUDED TUBES PER MOLEX PACKAGING SPECIFICATION PK-43860-004.
- 5) APPLICATION SPECIFICATION: AS-43860-001
- 6) ALL UNTOLERANCED DIMENSIONS ARE SHOWN FOR REFERENCE ONLY.
- 7) CONFORMS TO FCC REGULATION PART 68.5 FOR MODULAR JACKS.
- 8) FOR CROSS REFERENCE OF RECOMMENDED LED'S, SEE MOLEX WEBSITE.
- 9) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

PC BOARD LAYOUT
COMPONENT SIDE OF BOARD
RECOMMENDED PCB THICKNESS: .062/1.57

ADD NOTE 5 & 9 EC NO: UCP2008-0965 D2	2007/11/08	2007/12/04	2007/12/05	DESCRIPTION	QUALITY SYMBOL:
	DRWN:JBELL	CHKD:LSCHMIDT	APPR:FSMITH		 =0
					 =0

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

DIMENSION STYLE	
IN/MM	
DRAWN BY	DATE
DATE	DATE
CHECKED BY	DATE
DATE	DATE
APPROVED BY	DATE
DATE	DATE
MATERIAL NO.	
SEE CHART	
SIZE	
C	

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
4:1	INCH	
RJ-45 INVERTED MODULAR JACK ASSEMBLY WITH RJ-11 KEEPOUT FEATURE		
MOLEX INCORPORATED		
DOCUMENT NO.		SHEET NO.
SD-44620-001		3 OF 4
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