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Part Number: [0441700006](#)
Status: **Active**
Overview: [modular_plugs_jacks](#)
Description: Modular Jack, Right Angle, Shielded, Lightpipes, Stacked, 8/8, 16 Ports

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)
[Packaging Specification \(PDF\)](#)
[Product Specification PS-44050-003 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
UL E107635

General

Product Family Modular Jacks/Plugs
Series [44170](#)
Comments High Speed|Multi-Port
Component Type PCB Jack
Magnetic No
Overview [modular_plugs_jacks](#)
Performance Category 5
Power over Ethernet (PoE) N/A
Product Name RJ45

Physical

Color - Resin Black, Clear
Durability (mating cycles max) 500
Flammability 94V-0
Inverted / Top Latch Yes
Lightpipes/LEDs Lightpipes
Material - Metal Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin Polycarbonate, Polyester
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
Plating min: Mating (µin) 50
Plating min: Mating (µm) 1.25
Plating min: Termination (µin) 100
Plating min: Termination (µm) 2.5
Ports 16
Positions / Loaded Contacts 8/8
Surface Mount Compatible (SMC) No
Temperature Range - Operating -40°C to +80°C
Termination Interface: Style Through Hole
Wire/Cable Type N/A

Electrical

Current - Maximum per Contact 1.5A
Shielded Yes
Voltage - Maximum 125V

Solder Process Data

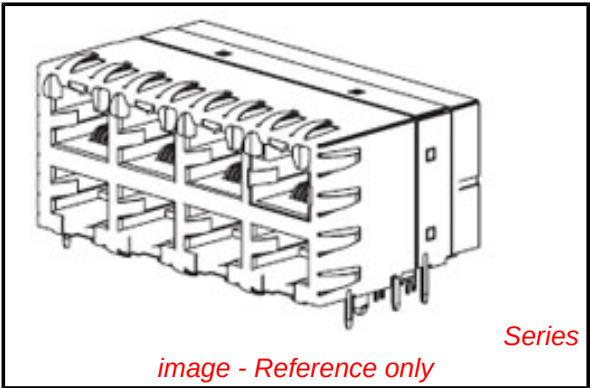


image - Reference only

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Not Reviewed
**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
[44170Series](#)

Mates With
FCC 68 Plugs

Lead-free Process Capability

Wave Capable (TH only)

Material Info

Reference - Drawing Numbers

Application Specification	AS-43860-001
Packaging Specification	PK-44170-003
Product Specification	PS-44050-003
Sales Drawing	SD-44170-001
Test Summary	TS-44050-001

This document was generated on 06/07/2010

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.052
1.32 TYP

DIM -A-

LIGHT PIPE 3
(TYP)

LIGHT PIPE 2
(TYP)

.550
13.97 TYP

LIGHT PIPE 4
(TYP)

LIGHT PIPE 1
(TYP)

OPTIONAL
SIDE PANEL
GROUND TABS
TYP (8)
SEE NOTE 9

CIRCUIT #1 (BOTTOM ROW)
SNAP-FIT CENTER PEG
(16 PORT VERSIONS ONLY)

.020
0.51 TYP

DIM -B-

.350
8.89 TYP

CIRCUIT #1 (TOP ROW)
.050
1.27 TYP

.425
10.80 (2 PLACES)

.020
0.50 TYP

1.337
33.95

.150
3.81 TYP
HIGHEST POINT

1.052
26.73 TYP

1.000
25.41

.100
2.55 TYP

.050
1.27 TYP

.158 (2) PLACES
4.01 PER PORT

.140 (6) PLACES
3.56 PER PORT

INNER AND REAR
GROUND TABS
(OPTIONAL)
CLASS C SURFACE
SEE NOTE 11

NOTES:

1) MATERIAL:

HOUSING: POLYESTER(PBT), GLASS FILLED, UL94V-0, COLOR: BLACK
LIGHT PIPES: POLYCARBONATE, UL-94HB, COLOR: CLEAR
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-44050-003.

4) PACKAGING SPECIFICATION: CONNECTOR PACKAGED IN THERMOFORMED TRAYS PER PK-44170-003.

5) APPLICATION SPECIFICATION: AS-43860-001

6) CONNECTORS AVAILABLE WITH EITHER SNAP-FIT OR PRESS-FIT PEGS.

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

8) PCB LAYOUT AND PANEL CUT-OUT SHOWN ON SHEET (2) OF (2).

9) AVAILABLE WITH THE (8) PANEL GROUND TABS REMOVED ON EACH SIDE
FOR SIDE TO SIDE STACKABILITY.

10) TERMINAL LENGTHS MAY BE DIFFERENT FROM TERMINAL TO TERMINAL.

11) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC
SPECIFICATION PS-45499-002 WITH THE EXCEPTION OF THE SURFACE
INDICATED WHICH IS A CLASS C SURFACE.

ISOMETRIC VIEW
(NOT TO SCALE)

PRESS-FIT PEG
STYLE (NOTE 6)

SNAP-FIT PEG
STYLE (NOTE 6)

ASSEMBLY MATERIAL NUMBER	NUMBER OF PORTS	PEG STYLE	DIM -A-	DIM -B-	SIDE PANEL GROUND TABS	INNER/REAR GROUND TABS
44170-0001	8 (2 X 4)	SNAP-FIT	2.330/59.18	2.100/53.34	YES	YES
44170-2001	8 (2 X 4)	SNAP-FIT	2.330/59.18	2.100/53.34	NO	YES
44170-3001	8 (2 X 4)	SNAP-FIT	2.330/59.18	2.100/53.34	YES	NO
44170-4001	8 (2 X 4)	SNAP-FIT	2.330/59.18	2.100/53.34	NO	NO
44170-0004	8 (2 X 4)	PRESS-FIT	2.330/59.18	2.100/53.34	YES	YES
44170-2004	8 (2 X 4)	PRESS-FIT	2.330/59.18	2.100/53.34	NO	YES
44170-3004	8 (2 X 4)	PRESS-FIT	2.330/59.18	2.100/53.34	YES	NO
44170-4004	8 (2 X 4)	PRESS-FIT	2.330/59.18	2.100/53.34	NO	NO
44170-0002	12 (2 X 6)	SNAP-FIT	3.430/87.12	3.200/81.28	YES	YES
44170-2002	12 (2 X 6)	SNAP-FIT	3.430/87.12	3.200/81.28	NO	YES
44170-3002	12 (2 X 6)	SNAP-FIT	3.430/87.12	3.200/81.28	YES	NO
44170-4002	12 (2 X 6)	SNAP-FIT	3.430/87.12	3.200/81.28	NO	NO
44170-0005	12 (2 X 6)	PRESS-FIT	3.430/87.12	3.200/81.28	YES	YES
44170-2005	12 (2 X 6)	PRESS-FIT	3.430/87.12	3.200/81.28	NO	YES
44170-3005	12 (2 X 6)	PRESS-FIT	3.430/87.12	3.200/81.28	YES	NO
44170-4005	12 (2 X 6)	PRESS-FIT	3.430/87.12	3.200/81.28	NO	NO
44170-0003	16 (2 X 8)	SNAP-FIT	4.530/115.06	4.300/109.22	YES	YES
44170-2003	16 (2 X 8)	SNAP-FIT	4.530/115.06	4.300/109.22	NO	YES
44170-3003	16 (2 X 8)	SNAP-FIT	4.530/115.06	4.300/109.22	YES	NO
44170-4003	16 (2 X 8)	SNAP-FIT	4.530/115.06	4.300/109.22	NO	NO
44170-0006	16 (2 X 8)	PRESS-FIT	4.530/115.06	4.300/109.22	YES	YES
44170-2006	16 (2 X 8)	PRESS-FIT	4.530/115.06	4.300/109.22	NO	YES
44170-3006	16 (2 X 8)	PRESS-FIT	4.530/115.06	4.300/109.22	YES	NO
44170-4006	16 (2 X 8)	PRESS-FIT	4.530/115.06	4.300/109.22	NO	NO

REVISED TITLE BLOCK

EC NO: UCP2010-0464
DRAWN: JAGUILAR 2009/08/20
CHKD: JELL 2009/08/26
APPR: FSMITH 2009/08/26

QUALITY
SYMBOLS

▽=0

▽=0

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES ± ---	± ---	± ---
3 PLACES ± ---	± .010	± ---
2 PLACES ± .025	± ---	± ---
1 PLACE ± ---	± ---	± ---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
IN/MM

DRAWN BY	DATE
MARGULIS	98/11/16
CHECKED BY	DATE
ROBERTS	98/11/16
APPROVED BY	DATE
ROBERTS	98/11/16

MATERIAL NO.
SEE CHART

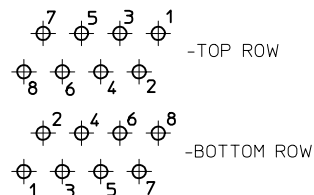
SIZE
C

SCALE
2:1

DESIGN UNITS
INCH

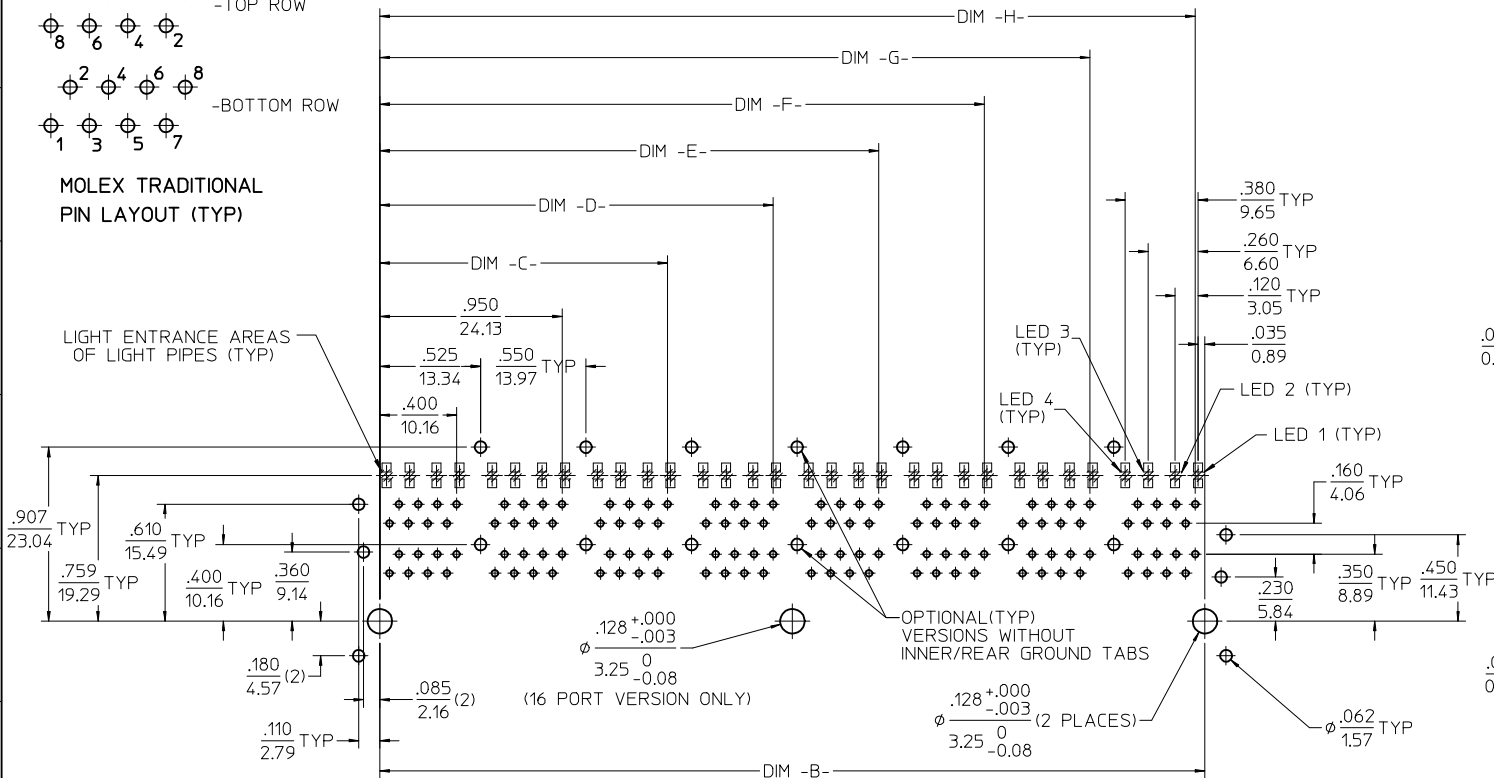
THIRD ANGLE
PROJECTION

STACKED MODULAR JACK
WITH LIGHT PIPES
CAT 5
MOLEX INCORPORATED
DOCUMENT NO.
SD-44170-001
SHEET NO.
1 OF 2
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

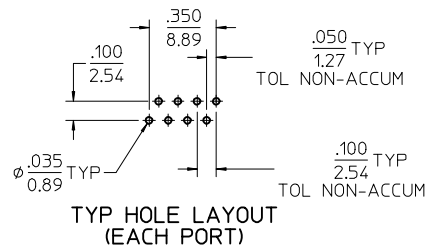


**MOLEX TRADITIONAL
PIN LAYOUT (TYP)**

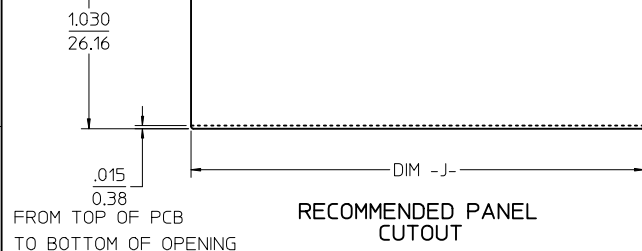
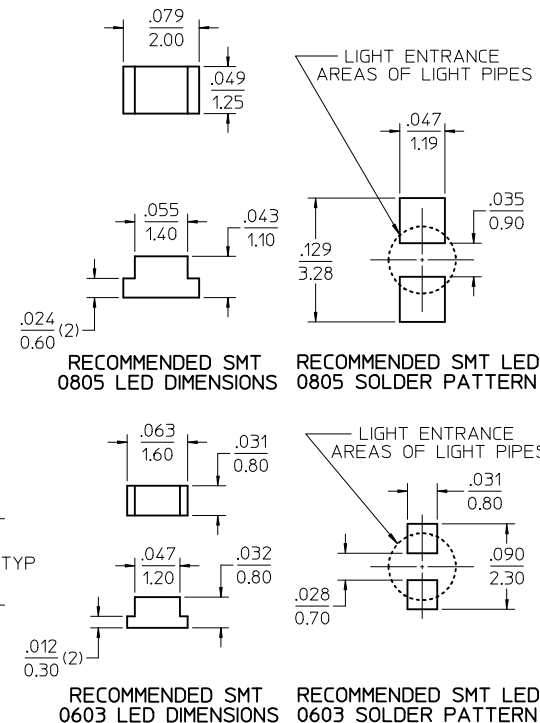
LIGHT ENTRANCE AREAS
OF LIGHT PIPES (TYP)



**PC BOARD LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: .062/1.57
(16 PORT VERSION SHOWN)**



R.012
0.30 TYP



NOTES:

1. SEE MOLEX WEB SITE FOR CROSS REFERENCE OF RECOMMENDED LED'S.

NUMBER OF PORTS		DIM -B-	DIM -C-	DIM -D-	DIM -E-	DIM -F-	DIM -G-	DIM -H-	DIM -J-		
8 (2 X 4)		2.100/53.34	1.500/38.10	2.050/52.07					2.360/59.94		
12 (2 X 6)		3.200/81.28	1.500/38.10	2.050/52.07	2.600/66.04	3.150/80.01			3.460/87.88		
16 (2 X 8)		4.300/109.22	1.500/38.10	2.050/52.07	2.600/66.04	3.150/80.01	3.700/93.98	4.250/107.95	4.560/115.82		
SEE SHEET 1 EC NO: UCP2010-0464 DRWN: JAGULAR CHKD: JELL APPR: FSM TH 2009/08/20 2009/08/26 2009/08/26	DESCRIPTION E4 REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 2:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY MARGULIS	DATE 98/11/16	STACKED MODULAR JACK WITH LIGHT PIPES CAT 5			
			4 PLACES	± ---	± ---	CHECKED BY ROBERTS	DATE 98/11/16				
			3 PLACES	± ---	± .010	APPROVED BY ROBERTS	DATE 98/11/16	MOLEX INCORPORATED			
			2 PLACES	± .025	± ---	MATERIAL NO.	DOCUMENT NO.				
			1 PLACE	± ---	± ---	SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
			ANGULAR ±1/2°		SEE CHART					SD-44170-001	SHEET NO. 2 OF 2
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								