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Part Number:

0441700001

Status:

Active

Overview:

modular_plugs_jacks

Description:

Modular Jack, Right Angle, Shielded, Lightpipes, Stacked, 8/8, 8 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

8

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

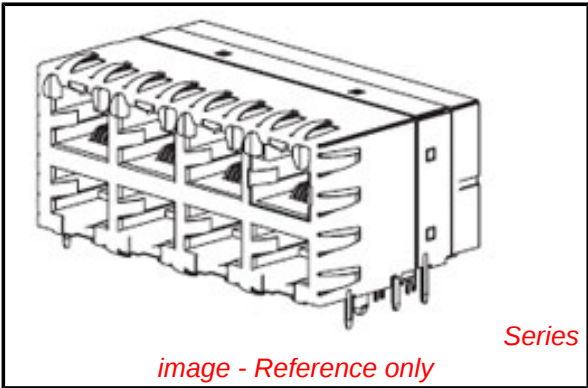
Shielded

Yes

Voltage - Maximum

125V

Solder Process Data



EU RoHS

ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status

Not Reviewed

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.

China RoHS



Search Parts in this Series
44170Series

Mates With
FCC 68 Plugs

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

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 ±	0.25	---
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

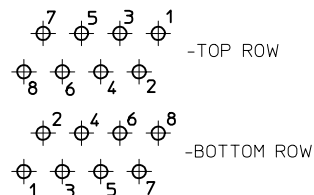
TITLE
STACKED MODULAR JACK
WITH LIGHT PIPES
CAT 5

MOLEX INCORPORATED

DOCUMENT NO.
SD-44170-001

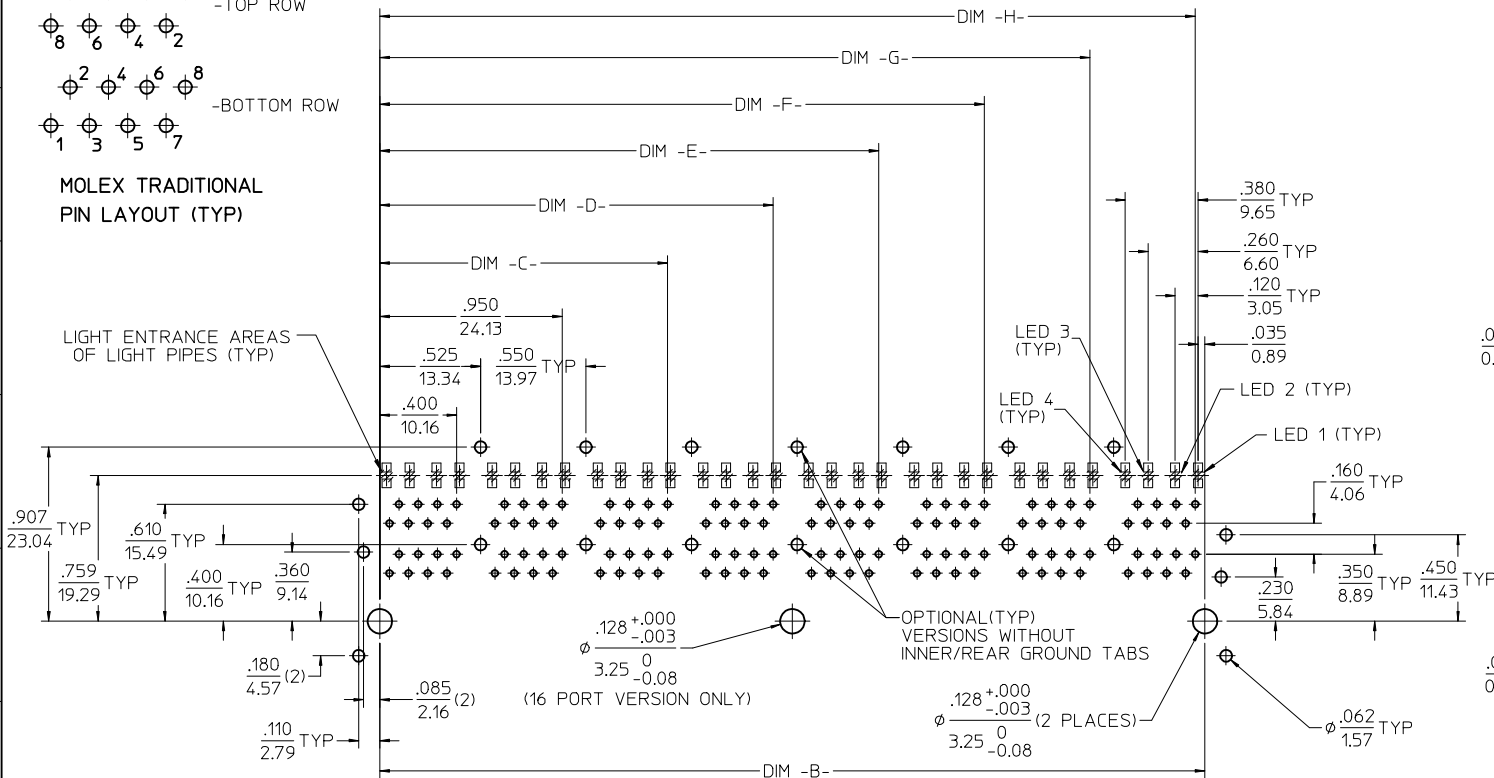
SHEET NO.
1 OF 2

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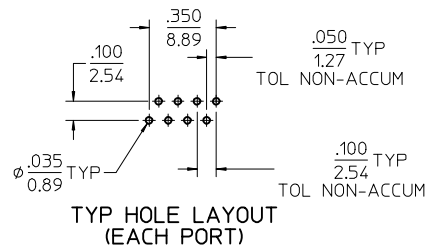


**MOLEX TRADITIONAL
PIN LAYOUT (TYP)**

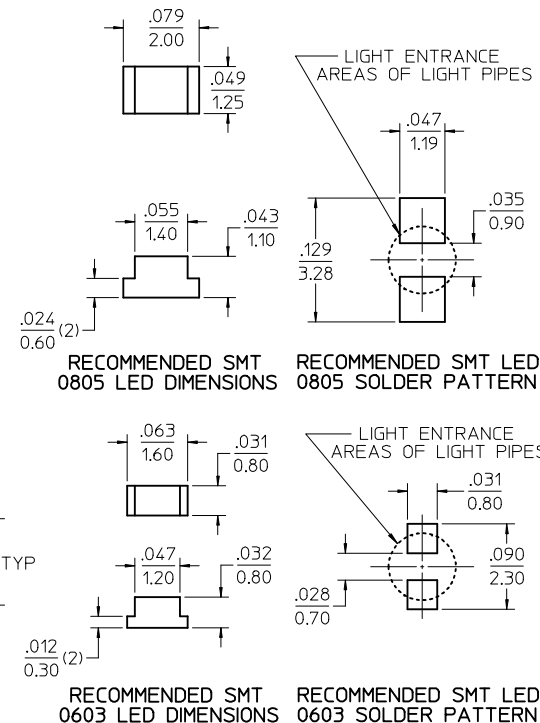
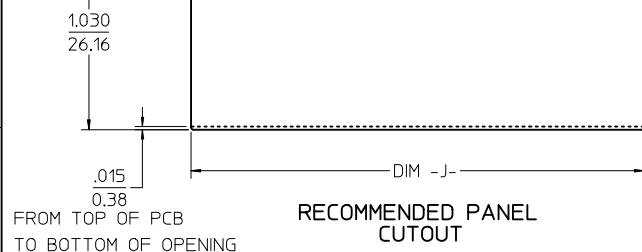
LIGHT ENTRANCE AREAS
OF LIGHT PIPES (TYP)



**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 ▽=0 ▽=0 E4	QUALITY SYMBOLS	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			
			2 PLACES	± 0.25	± ---	MATERIAL NO.		MOLEX INCORPORATED SD-44170-001		
			1 PLACE	± ---	± ---	DOCUMENT NO.				
			ANGULAR ±1/2°		SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SHEET NO. 2 OF 2			