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Part Number:

0441700003

Status:

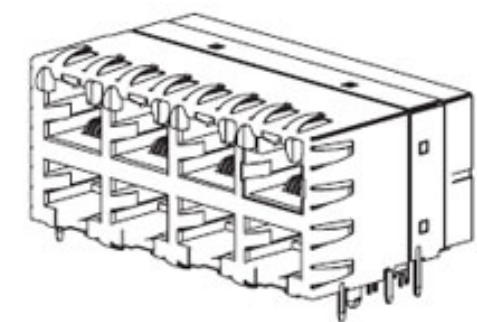
Active

Overview:

modular_plugs_jacks

Description:

Modular Jack, Right Angle, Shielded, Lightpipes, Stacked, 8/8, 16 Ports



Series

image - Reference only

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

EU RoHS

ELV and RoHS
Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Halogen-Free

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-

CIRCUIT #1 (TOP ROW)

.050
1.27 TYP

.350
8.89 TYP

.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

.163
4.15

.425
10.80 (2 PLACES)

.012
0.30 TYP

.759
19.29 TYP

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

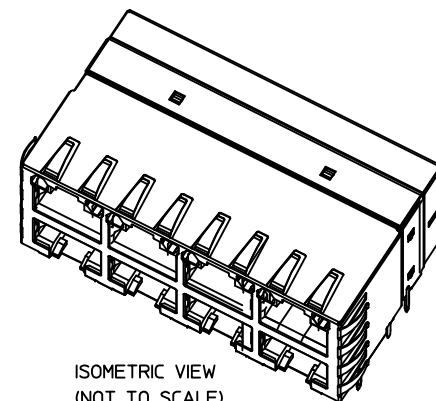
FOR SIDE TO SIDE STACKABILITY.

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

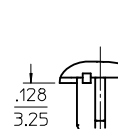
11) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC

SPECIFICATION PS-45499-002 WITH THE EXCEPTION OF THE SURFACE

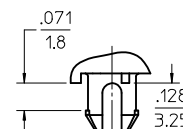
INDICATED WHICH IS A CLASS C SURFACE.



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

DRWN: JAGUILAR 2009/08/20

CHKD: JELL 2009/08/26

APPR: FSMITH 2009/08/26

REV

DESCRIPTION

QUALITY SYMBOLS

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GENERAL TOLERANCES
(UNLESS SPECIFIED)

DIMENSION STYLE
IN/MM

SCALE
2:1

DESIGN UNITS
INCH

THIRD ANGLE
PROJECTION

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

SEE CHART

DOCUMENT NO.
SD-44170-001

SHEET NO.
1 OF 2

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