

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0428788984

Status:

Active

Overview:

modular_plugs_jacks

Description:

Modular Jack, Vertical, Low Profile, 8/4, Panel Stops

Documents:

3D Model

Drawing (PDF)

Product Specification PS-42878 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

CSA

LR19980

UL

E107635

General

Product Family

Modular Jacks/Plugs

Series

42878

Comments

Flush Mount|Flangeless|2 PCB Thick

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

Durability (mating cycles max)

500

Flammability

94V-0

Inverted / Top Latch

N/A

Lightpipes/LEDs

None

Material - Metal

Phosphor Bronze

Material - Plating Mating

Gold

Material - Plating Termination

Tin

Material - Resin

Polyester

Orientation

Vertical (Top 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

1

Positions / Loaded Contacts

8/4

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

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

42878Series

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	235

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-42878-492
Product Specification	PS-42878
Sales Drawing	SDA-42878-****
Test Summary	TS-42878-001

This document was generated on 06/07/2010

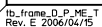
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'YES'- JACKS WITH MOUNTING EARS
'NO'- JACKS WITHOUT MOUNTING EARS

11) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION P WITH THE EXCEPTION OF THE SINK WHICH CONFORMS TO CLASS C REQUIREMENTS.

$$\frac{.205 +.015/- .025}{(5.21 +.38/- .63)}$$

4	$\frac{.150}{(3.81)}$
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[illegible]

CHARACTERISTICS LEGEND

EXTERNAL CONNECTOR BODY DIMENSIONS: AVAILABLE IN 4, 6, 8 AND 10 POSITION BODY
NUMBER OF CONTACT POSITIONS: CONNECTOR SIZE 4 ACCOMMODATES 2, OR 4 TERMINALS, CONNECTOR SIZE 6 ACCOMMODATES 2, 4, OR 6 TERMINALS, CONNECTOR SIZE 8 ACCOMMODATES 2, 4, 6, 8, OR 10 TERMINALS
POLARIZATION OPTIONS: (AVAILABLE ON CONNECTOR SIZE 8 ONLY) "NO" - WITHOUT KEYING SLOT "YES" - WITH KEYING SLOT
MOUNTING EARS OPTION: "YES" - PART WITH MOUNTING EARS "NO" - PART WITHOUT MOUNTING EARS
(SEE SHEET 3 FOR PART DESCRIPTIONS, AND DIMENSIONS)

B																	<table><tr><td rowspan="4">SEE SHEET ONE EC NO: UCP2004-1617 DRAWN L SCHMIDT 2004/03/03 CHKD L SCHMIDT 2004/03/03 APPR F SMITH 2004/03/03 REV</td><td rowspan="4">DESCRIPTION</td><td>QUALITY SYMBOLS</td><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td>SCALE ---</td><td>DESIGN UNITS INCH</td><td rowspan="2"></td><td rowspan="2">THIRD ANGLE PROJECTION</td><td rowspan="2">REVISE ON CAD ONLY</td></tr><tr><td rowspan="3"></td><td>mm</td><td>INCH</td><td colspan="2">DIMENSION STYLE IN/MM</td><td>TITLE</td></tr><tr><td>4 PLACES ± --- ± ---</td><td>DRAWN BY</td><td>DATE</td><td rowspan="2"> MOLEX INCORPORATED</td></tr><tr><td>3 PLACES ± --- ± ---</td><td>BAP</td><td>1992/04/09</td></tr><tr><td>2 PLACES ± --- ± ---</td><td>CHECKED BY</td><td>DATE</td><td rowspan="2">ASSEMBLY, VERTICAL LOW PROFILE MODULAR JACKS (CONNECTOR SIZE 8)</td></tr><tr><td>1 PLACE ± --- ± ---</td><td>BAP</td><td>1992/04/09</td></tr><tr><td colspan="2">ANGULAR ±1/2°</td><td>APPROVED BY</td><td>DATE</td><td>MATERIAL NO.</td><td>DOCUMENT NO.</td><td>SHEET NO.</td></tr><tr><td colspan="2">DRAFT WHERE APPLICABLE</td><td>RAS</td><td>1992/04/09</td><td>SEE CHART SDA-42878-****</td><td>5 OF 5</td><td></td></tr><tr><td colspan="2">MUST REMAIN WITHIN DIMENSIONS</td><td colspan="5">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr></table>										SEE SHEET ONE EC NO: UCP2004-1617 DRAWN L SCHMIDT 2004/03/03 CHKD L SCHMIDT 2004/03/03 APPR F SMITH 2004/03/03 REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE ---	DESIGN UNITS INCH		THIRD ANGLE PROJECTION	REVISE ON CAD ONLY		mm	INCH	DIMENSION STYLE IN/MM		TITLE	4 PLACES ± --- ± ---	DRAWN BY	DATE	MOLEX INCORPORATED	3 PLACES ± --- ± ---	BAP	1992/04/09	2 PLACES ± --- ± ---	CHECKED BY	DATE	ASSEMBLY, VERTICAL LOW PROFILE MODULAR JACKS (CONNECTOR SIZE 8)	1 PLACE ± --- ± ---	BAP	1992/04/09	ANGULAR ±1/2°		APPROVED BY	DATE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	DRAFT WHERE APPLICABLE		RAS	1992/04/09	SEE CHART SDA-42878-****	5 OF 5		MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					A
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