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Part Number: [0428788458](#)
Status: **Active**
Overview: [modular_plugs_jacks](#)
Description: Modular Jack, Vertical, Low Profile, 8/8, Keyed

Documents:
[3D Model](#) [Product Specification PS-42878 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

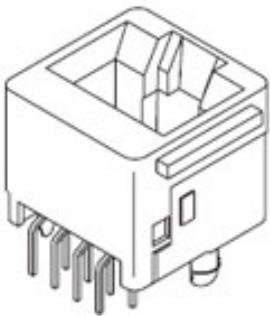
CSA LR19980
UL E107635

General

Product Family Modular Jacks/Plugs
Series [42878](#)
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
Keying to Mating Part Yes
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
Panel Mount With Flange
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 8/8
Surface Mount Compatible (SMC) No
Temperature Range - Operating -40°C to +85°C
Termination Interface: Style Through Hole
Waterproof / Dustproof No



Series

image - Reference only

EU RoHS

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

China RoHS



Not Reviewed

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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

Wire/Cable Type	N/A
Electrical	
Current - Maximum per Contact	1.5A
Grounding to PCB	No
Grounding to Panel	None
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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[illegible]

CHARACTERISTICS LEGEND

EXTERNAL CONNECTOR BODY DIMENSIONS:	
AVAILABLE IN 4, 6, 8, 10 OR 12 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 IN 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></td><td>mm</td><td>INCH</td><td></td><td></td></tr><tr><td rowspan="3"></td><td rowspan="3"></td><td>4 PLACES ± --- ± ---</td><td colspan="2">DIMENSION STYLE IN/MM</td><td>DRAWN BY</td><td>DATE</td><td rowspan="3"></td><td rowspan="3">ASSEMBLY, VERTICAL LOW PROFILE MODULAR JACKS (CONNECTOR SIZE 8)</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>MOLEX MOLEX INCORPORATED</td></tr><tr><td>1 PLACE ± --- ± ---</td><td>BAP</td><td>1992/04/09</td><td>APPROVED BY</td><td>DATE</td><td>MATERIAL NO.</td><td>DOCUMENT NO.</td><td>SHEET NO.</td></tr><tr><td colspan="3">DRAFT WHERE APPLICABLE</td><td colspan="3">MUST REMAIN WITHIN DIMENSIONS</td><td colspan="3">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td><td>D</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					4 PLACES ± --- ± ---	DIMENSION STYLE IN/MM		DRAWN BY	DATE		ASSEMBLY, VERTICAL LOW PROFILE MODULAR JACKS (CONNECTOR SIZE 8)	3 PLACES ± --- ± ---	BAP	1992/04/09	2 PLACES ± --- ± ---	CHECKED BY	DATE	MOLEX MOLEX INCORPORATED	1 PLACE ± --- ± ---	BAP	1992/04/09	APPROVED BY	DATE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	DRAFT WHERE APPLICABLE			MUST REMAIN WITHIN DIMENSIONS			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			D	A
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