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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

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
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

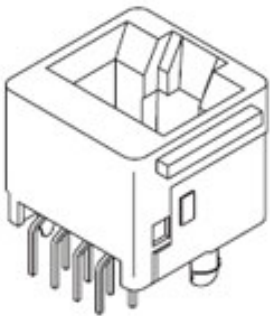


image - Reference only

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

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

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tb_frame_D_P_ME_T
Rev. E 2006/04/15

[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></td><td>mm</td><td>INCH</td><td>IN/MM</td><td>TITLE</td></tr><tr><td>▽.0</td><td>4 PLACES ± --- ± ---</td><td>DRAWN BY</td><td>DATE</td><td rowspan="2">ASSEMBLY, VERTICAL LOW PROFILE MODULAR JACKS (CONNECTOR SIZE 8)</td></tr><tr><td>▽.0</td><td>3 PLACES ± --- ± ---</td><td>BAP</td><td>1992/04/09</td></tr><tr><td></td><td></td><td>2 PLACES ± --- ± ---</td><td>CHECKED BY</td><td>DATE</td><td rowspan="2">MOLEX MOLEX INCORPORATED</td></tr><tr><td></td><td></td><td>1 PLACE ± --- ± ---</td><td>BAP</td><td>1992/04/09</td></tr><tr><td colspan="3"></td><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="3"></td><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="3"></td><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	IN/MM	TITLE	▽.0	4 PLACES ± --- ± ---	DRAWN BY	DATE	ASSEMBLY, VERTICAL LOW PROFILE MODULAR JACKS (CONNECTOR SIZE 8)	▽.0	3 PLACES ± --- ± ---	BAP	1992/04/09			2 PLACES ± --- ± ---	CHECKED BY	DATE	MOLEX MOLEX INCORPORATED			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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