

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0428788456

Status:

Active

Overview:

modular_plugs_jacks

Description:

Modular Jack, Vertical, Low Profile, 8/8, Keyed, 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

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

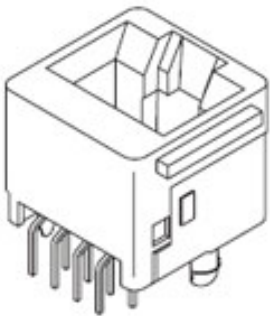


image - Reference only

Series

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

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

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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NOTES:

- 1) MATERIALS: HOUSING- POLYESTER, GLASS FIBER, UL94V-0. COLOR - BLACK
TERMINALS- PHOSPHOR BRONZE ALLOY, .015(0.38) THICK.
- 2) TERMINAL PLATING:
 - SELECT TIN IN CONTACT AREA: 50 MICROINCHES MIN.
 - SELECT TIN IN PC TAIL AREA: 100 MICROINCHES MIN.
 - WITH OVERALL NICKEL UNDERPLATE: 50 MICROINCHES MIN.
 - 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 TAIL.
- 3) THESE MODULAR JACKS MEET THE PERFORMANCE REQUIREMENTS OF MOLEX PRODUCT SPECIFICATION PS-42878.
- 4) CONNECTORS ARE SHIPPED IN THERMOFORMED TRAYS PER JACKS/CARD SPECIFICATION PS-42878-492.
- 5) ALL JACKS ARE DESIGNED TO BE USED WITH .062(1/16) OR .125(1/8) THICK PCB BOARDS.
- 6) ALL JACKS CONFORM TO AND ACCEPT PLUGS WHICH CONFORM TO FCC RULES AND REGULATIONS PART 68, SUBPART F.
- 7) ALL JACKS MUST BE CAPABLE OF FITTING INTO MOLEX GAGE G-42410 (CONNECTOR SIZE 8).
- 8) SEE SHEETS 1 & 4 FOR CONNECTOR SIZE 4.
- 9) SEE SHEETS 2 & 4 FOR CONNECTOR SIZE 6.
- 10) ENGRAVED NUMBERS ON HOUSING BODY ARE FOR MOLDING IDENTIFICATION ONLY, THEY ARE NOT INTENDED FOR ASSEMBLY IDENTIFICATION.
- 11) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002 WITH THE EXCEPTION OF THE SINK WHICH CONFORMS TO CLASS C REQUIREMENTS.

CONNECTOR SIZE	CIRCUIT SIZE	DIM. "G"
8	10	<u>.450</u> (11.43)
8	8	<u>.350</u> (8.89)
8	6	<u>.250</u> (6.35)
8	4	<u>.150</u> (3.81)
8	2	<u>.050</u> (1.27)

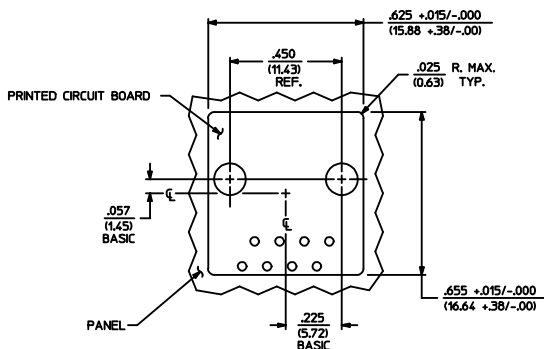
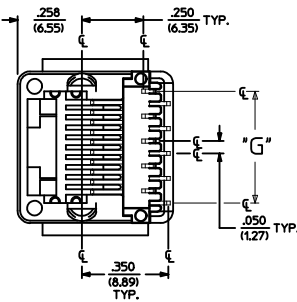


Diagram illustrating the rear view of the module. The module has two mounting ears on the top. The bottom edge shows two rows of pins. The left row is labeled "CIRCUIT NO. 1 (8 CKT)" and the right row is labeled "CIRCUIT NO. 1 (10 CKT)".



1.28 ± .003
(3.25 ± .08) DIA. (2 PLACES)

.450 ± .004
(11.43 ± .10)

.350 ± .003
(8.89 ± .08)

.100 ± .002
(2.54 ± .05)

.200 ± .002
(5.08 ± .05)

.050 ± .002
(1.27 ± .05) TYP.

.035 ± .003 DIA. TYP.
(0.89 ± .08)

CIRCUIT #1 (8 KCT)

CIRCUIT #1 (10 KCT)

G ± .002 TOLERANCES ARE
(±.05) NOT ACCUMULATIVE

ADD COSMETIC SPEC EC NO: UC20039-1267 DRAWING: JACOBI TEST 2008/12/02 CHKD: BELL APPR: 2008/12/02	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 1:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION																								
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H2	DESCRIPTION	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE SHEET 5	DOCUMENT NO. SDA-42878-****	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																											
REV			DIMENSION SIZE																													

[illegible]

CHARACTERISTICS LEGEND
EXTERNAL CONNECTOR BODY DIMENSIONS: AVAILABLE IN 4, 6, AND 8 POSITION BODY
NUMBER OF CONTACT POSITIONS: CONNECTOR SIZE 4 ACCOMMODATES 2, OR 4 TERMINALS, CONNECTOR SIZE 6 ACCOMMODATES 2, 4, 6, OR 8 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											SEE SHEET ONE EC NO: UCP2004-167 DRAWN:LSCHMDT 2004/03/03 CHKD:LSCHMDT 2004/03/03 APPR:F5MTH 2004/03/03 REV	QUALITY SYMBOLS ▽·0 ▽·0	DESCRIPTION 4 PLACES ±--- 3 PLACES ±--- 2 PLACES ±--- 1 PLACE ±--- ANGULAR ±1/2° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE ---	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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