

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0424108602

Status:

Active

Overview:

[modular_plugs_jacks](#)

Description:

Modular Jack, Vertical, 8/6

Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[Product Specification PS-42410 \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA

LR19980

UL

E107635

General

Product Family

Modular Jacks/Plugs

Series

[42410](#)

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

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 Retention

Yes

PCB Thickness Recommended (in)

0.062 In

PCB Thickness Recommended (mm)

1.60 mm

Packaging Type

Tray

Pitch - Mating Interface (in)

0.050 In

Pitch - Mating 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

8/6

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

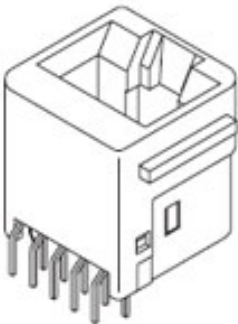
1.5A

Shielded

No

Voltage - Maximum

125V



Series

image - Reference only

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

[42410Series](#)

Mates With

FCC 68 Plugs

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-42410-492
Product Specification	PS-42410
Sales Drawing	SDA-42410-****
Test Summary	TS-42878-001

This document was generated on 06/07/2010

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NOTES:

1) MATERIALS: HOUSING PARTS ARE MADE OF POLYESTER, RATED UL 94 V-0, COLOR IS BLACK; TERMINALS ARE .015/(.038) THICK PHOSPHOR BRONZE.

2) TERMINAL PLATING OPTIONS PER ES-88-***:

A - SELECT GOLD IN CONTACT AREA: 50 MICROINCHES MIN.,

*SELECT TN 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

*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-42410.

4) CONNECTORS ARE TO BE PACKED IN THERMOFORMED TRAYS, PER PACKAGING SPECIFICATION PK-42410-492.

5) ALL JACKS ARE DESIGNED TO BE USED WITH .062/(157) OR .125/(3.18) THICK P.C. BOARDS.

6) ALL JACKS CONFORM TO AND ACCEPT PLUGS WHICH CONFORM TO FCC RULES AND REGULATIONS

87 ALL JACKS CONFORM TO AND ACCEPT PLOGS WHICH CONFORM TO FCC RULES AND REGULATIONS, PART 68. SUBPART E, WHEN PLATED WITH 50 MICRONS OF GOLD.

7) ALL JACKS MUST BE CAPABLE OF FITTING INTO MOLEX GAGE G-42410 (CONNECT

8) SEE SHEETS 1 & 4 FOR CONNECTOR SIZE &

9) SEE SHEETS 2 & 4 FOR CONNECTOR SIZE 6.

10) SEE SHEET 4 FOR ASSEMBLY ITEM NUMBERS.

11) THIS MODULAR JACK ASSEMBLY IS ALSO AVAILABLE IN A UL 94V-0 RATED GLASS FILLED NYLON

11) THIS MODULAR JACK ASSEMBLY IS
(SEE MOLEY DRAWING SDA /3576)

42) ENGRAVED NUMBERS ON HOUSING BODY ARE FOR MOLDING IDENTIFICATION ONLY.

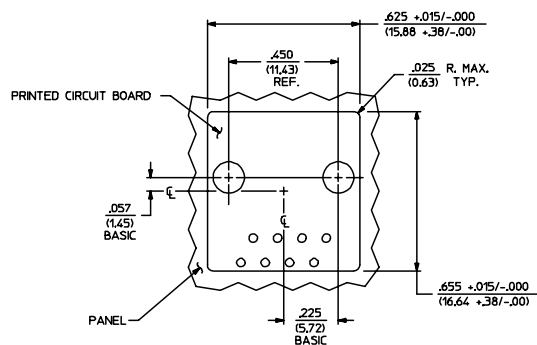
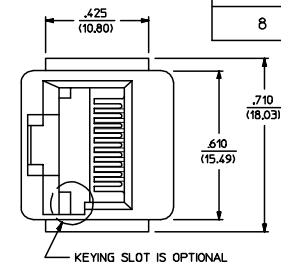
12) ENGRAVED NUMBERS ON HOUSING BODY ARE FOR MOLDING IDENTIFICATION. THEY ARE NOT INTENDED FOR ASSEMBLY IDENTIFICATION PURPOSES.

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43) ALL UNTOLERANCED DIMENSIONS ARE SHOWN FOR REFERENCE ONLY.

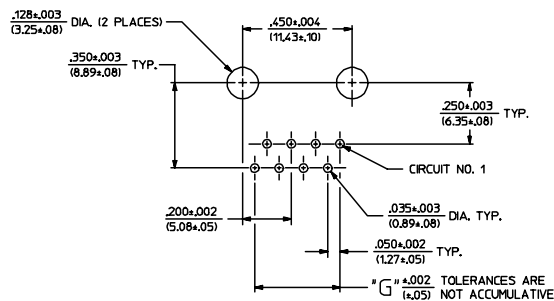
13) ALL UNTOLERANCED DIMENSIONS ARE SHOWN FOR REFERENCE ONLY.

P.C. BOARD THICKNESS	DIM. "D" (MTG. PEGS)	DIM. "F" (P.C. TAILS)	CONNECTOR SIZE	CIRCUIT SIZE	DIM. "G"
.062/(1.57)	$\frac{.128}{(3.25)}$	$\frac{.120 \pm .015 / -.025}{(3.05 \pm .38 / -.63)}$	8	8	$\frac{.350}{(8.89)}$
.125/(3.18)	$\frac{.191}{(4.85)}$	$\frac{.205 \pm .015 / -.025}{(5.21 \pm .38 / -.63)}$	8	6	$\frac{.250}{(6.35)}$
			8	4	$\frac{.150}{(3.81)}$
			8	2	$\frac{.050}{(1.27)}$

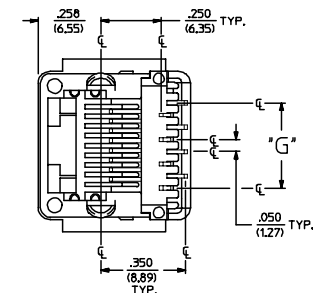
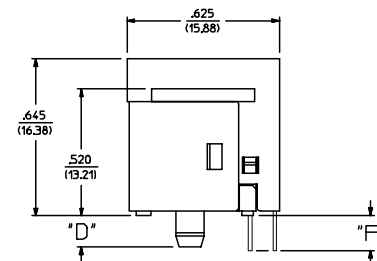
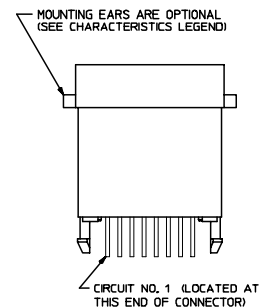
.425
 (10.80)



PANEL CUT-OUT FOR CONNECTOR SIZE 8



P.C. BOARD LAYOUT FOR CONNECTOR SIZE 8



SIZE 8 MODULAR JACK LOADED WITH 8 TERMINALS SHOWN ABOVE

(SEE SHEET 4 FOR PART NUMBER AVAILABILITY)

SEE SHEET ONE EC NO: UCP2004-467 DRAWING SCHMIDT 2004-03/03 CHECKED SCHMIDT 2004-03/03 APPROVED SCHMIDT 2004-03/03	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY
	▼ 0 ▽ 0	mm	INCH	DIMENSION STYLE		TITLE	ASSEMBLY, VERTICAL MODULAR JACKS (CONNECTOR SIZE 8) MOLEX MOLEX INCORPORATED
		4 PLACES +---+ +---+		IN/MM	DRAWN BY DATE		
		3 PLACES +---+ +---+		GLT 1990/10/12			
		2 PLACES +---+ +---+		CHECKED BY DATE			
		1 PLACE +---+ +---+		BAP 1990/10/12			
		ANGULAR ±1/2°		APPROVED BY DATE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.
		DRAFT WHERE APPLICABLE		RAS 1990/10/12	SEE SHEET 4 SDA-42410-****		3 OF 4
		MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
	NEW						



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Электрон
Связь**

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