

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0424106410

Status:

Active

Overview:

[modular_plugs_jacks](#)

Description:

Modular Jack, Vertical, 6/4

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

RJ11

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)

0.125 In

PCB Thickness Recommended (mm)

3.20 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

6/4

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

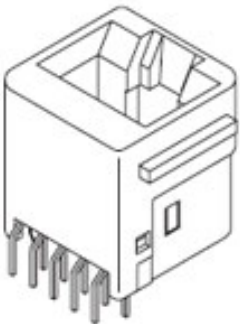


image - Reference only

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

[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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42410

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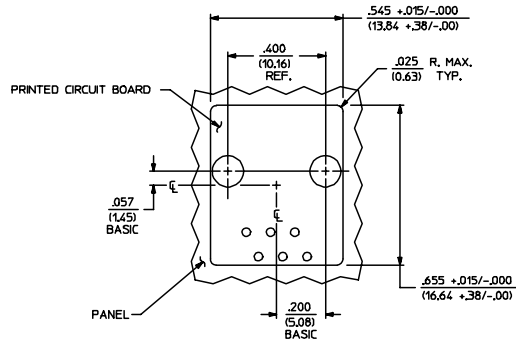
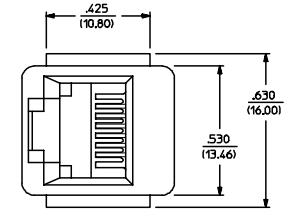
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NOTES:

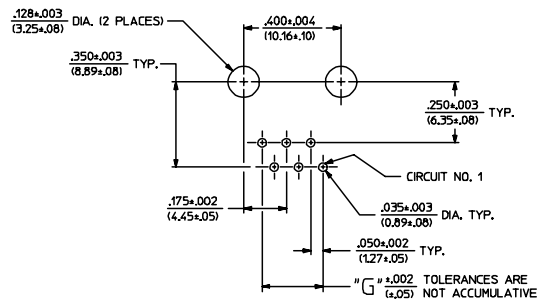
- 1) MATERIALS: HOUSING PARTS ARE MADE OF POLYESTER, RATED UL 94 V-0. COLOR IS BLACK, TERMINALS ARE .015/(0.38) THICK PHOSPHOR BRONZE.
- 2) TERMINAL PLATING OPTIONS PER ES-88-***:
- A - SELECT GOLD IN CONTACT AREA: 50 MICRONS MIN.
*SELECT TIN IN PC TAIL AREA: 100 MICRONS MIN.
WITH OVERALL NICKEL UNDERPLATE: 50 MICRONS MIN.
- B - SELECT GOLD IN CONTACT AREA: 15 MICRONS MIN.
*SELECT TIN IN PC TAIL AREA: 100 MICRONS MIN.
WITH OVERALL NICKEL UNDERPLATE: 50 MICRONS 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-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/(1.57) OR .125/(3.18) THICK P.C. BOARDS.
- 6) ALL JACKS CONFORM TO AND ACCEPT PLUGS WHICH CONFORM TO FCC RULES AND REGULATIONS PART 68, SUBPART F, WHEN PLATED WITH 50 MICRONS GOLD.
- 7) ALL JACKS MUST BE CAPABLE OF FITTING INTO MOLEX GAGE G-42410 (CONNECTOR SIZE 4).
- 8) SEE SHEETS 1 & 4 FOR CONNECTOR SIZE 4.
- 9) SEE SHEETS 3 & 4 FOR CONNECTOR SIZE 8.
- 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. (SEE MOLEX DRAWING SDA-43576)
- 12) ENGRAVED NUMBERS ON HOUSING BODY ARE FOR MOLDING IDENTIFICATION ONLY. THEY ARE NOT INTENDED FOR ASSEMBLY IDENTIFICATION PURPOSES.
- 13) ALL UNTOLERANCED DIMENSIONS ARE SHOWN FOR REFERENCE ONLY.

P.C. BOARD THICKNESS	DIM. 'D' (MTG. PEGS)	DIM. 'F' (P.C. TAILS)
0.062/(1.57)	.128 (3.25)	.120 +.015/-.025 (3.05 +.38/-.63)
0.125/(3.18)	.191 (4.85)	.205 +.015/-.025 (5.21 +.38/-.63)

CONNECTOR SIZE	CIRCUIT SIZE	DIM. 'G'
6	6	.250 (6.35)
6	4	.150 (3.81)
6	2	.050 (1.27)

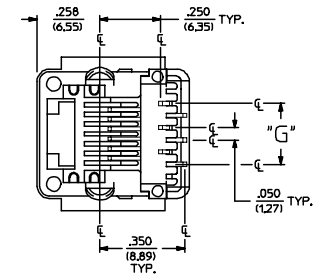
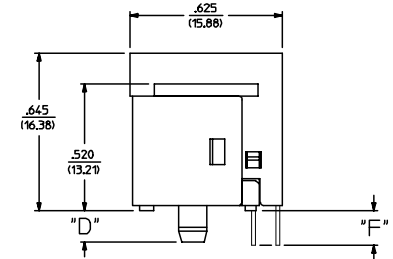
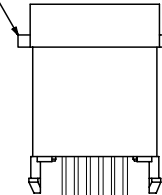


PANEL CUT-OUT FOR CONNECTOR SIZE 6



P.C. BOARD LAYOUT FOR CONNECTOR SIZE 6

MOUNTING EARS ARE OPTIONAL



SIZE 6 MODULAR JACK LOADED WITH 6 TERMINALS SHOWN ABOVE
(SEE SHEET 4 FOR PART NUMBER AVAILABILITY)

SEE SHEET ONE EC NO: UFP2004-667 DRAWN: SCHMIDT 2004/03/03 CHKD: SCHMIDT 2004/03/03 APPR: F. SMITH 2004/03/03 N	QUALITY SYMBOLS 0 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 4:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION REVISE ON CAD ONLY	TITLE ASSEMBLY, VERTICAL MODULAR JACKS (CONNECTOR SIZE 6) MOLEX INCORPORATED	MATERIAL NO. DOCUMENT NO. SHEET NO. 2 OF 4		
				DIMENSION STYLE IN/MM						
		4 PLACES	±	3 PLACES	±				DRAWN BY GLT	DATE 1990/10/12
		3 PLACES	±	2 PLACES	±				CHECKED BY BAP	DATE 1990/10/12
		2 PLACES	±	1 PLACE	±				APPROVED BY RAS	DATE 1990/10/12
		ANGULAR ±1/2°							SEE SHEET 4 SDA-42410-****	
		DRAFT WHERE APPLICABLE							THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
		MUST REMAIN WITHIN DIMENSIONS								

