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Part Number:0424104170

Status:Active

Description:Modular Jack, Vertical, 4/4

Documents:

3D Model

Drawing (PDF)

Product Specification PS-42410 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

CSA

UL

LR19980

E107635

General

Product Family

Series

Component Type

Magnetic

Performance Category

Power over Ethernet (PoE)

Product Name

Modular Jacks/Plugs

42410

PCB Jack

No

3

N/A

RJ9

Physical

Boot Color

Color - Resin

Durability (mating cycles max)

Flammability

Inverted / Top Latch

Keying to Mating Part

Lightpipes/LEDs

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Orientation

PCB Locator

PCB Retention

PCB Thickness Recommended (in)

PCB Thickness Recommended (mm)

Packaging Type

Panel Mount

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Plating min: Termination (µin)

Plating min: Termination (µm)

Ports

Positions / Loaded Contacts

Surface Mount Compatible (SMC)

Temperature Range - Operating

Termination Interface: Style

Waterproof / Dustproof

Wire/Cable Type

N/A

Black

500

94V-0

N/A

None

None

Phosphor Bronze

Gold

Tin

Polyester

Vertical (Top Entry)

Yes

Yes

0.062 In

1.57 mm

Tray

With Flange

0.040 In

1.02 mm

0.050 In

1.27 mm

50

1.25

100

2.5

1

4/4

No

-40°C to +85°C

Through Hole

No

N/A

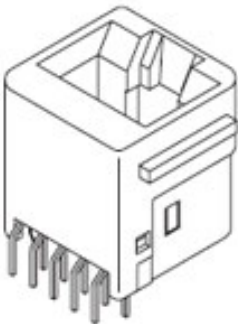


image - Reference only

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

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-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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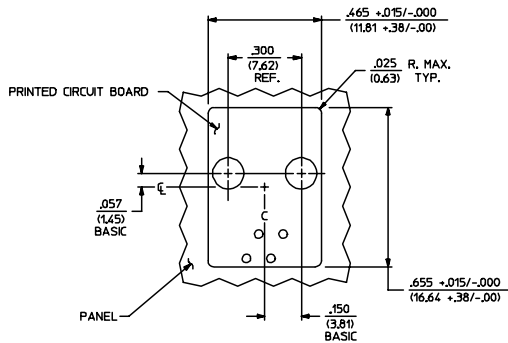
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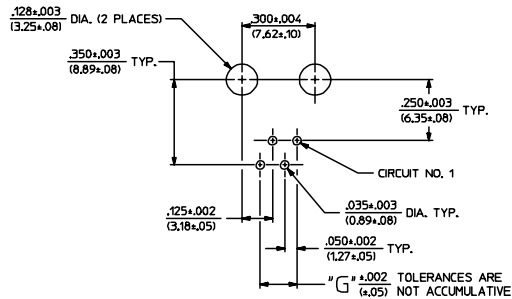
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NOTES:

- 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.
 - *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 2 & 4 FOR CONNECTOR SIZE 6.
- 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.



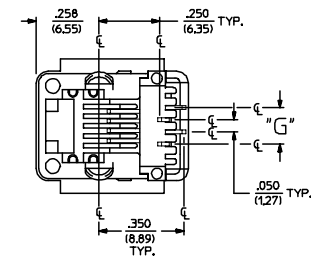
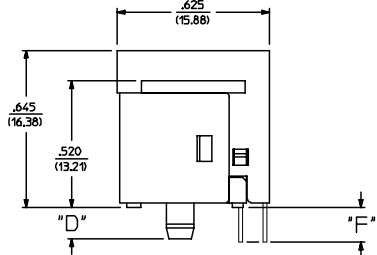
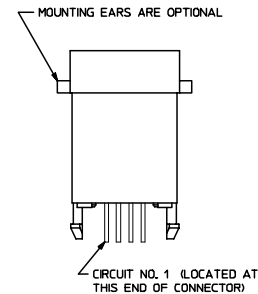
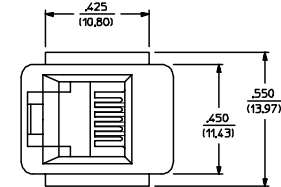
PANEL CUT-OUT FOR CONNECTOR SIZE 4



P.C. BOARD LAYOUT FOR CONNECTOR SIZE 4

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

CONNECTOR SIZE	CIRCUIT SIZE	DIM. "G"
4	4	.150 (3.81)
4	2	.050 (1.27)



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

LEAD FREE PLATING EC NO: UFP2004-1617 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 4) MOLEX MOLEX INCORPORATED	MATERIAL NO. SEE SHEET 4 SDA-42410-****	DOCUMENT NO.	SHEET NO. 1 OF 4		
		DESCRIPTION		mm INCH	DIMENSION STYLE IN/MM							
			4 PLACES	± .0005	± .0005						DRAWN BY DATE	
			3 PLACES	± .0005	± .0005						GLT 1990/10/12	
			2 PLACES	± .0005	± .0005						CHECKED BY DATE	
			1 PLACE	± .0005	± .0005						BAP 1990/10/12	
		ANGULAR ±1/2°		APPROVED BY DATE	SHEET NO. 1 OF 4							
		DRAFT WHERE APPLICABLE		RAS 1990/10/12							SEE SHEET 4 SDA-42410-****	
		MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								
		REV										

