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Part Number: [0424109080](#)
Status: **Active**
Overview: [modular_plugs_jacks](#)
Description: Modular Jack, Vertical, 8/4, Panel Stops

Documents:
[3D Model](#) [Product Specification PS-42410 \(PDF\)](#)
[Drawing \(PDF\)](#) [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) 0.125 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
Ports 1
Positions / Loaded Contacts 8/4
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

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

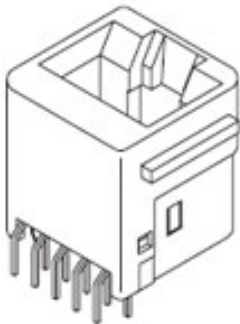


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Series

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

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

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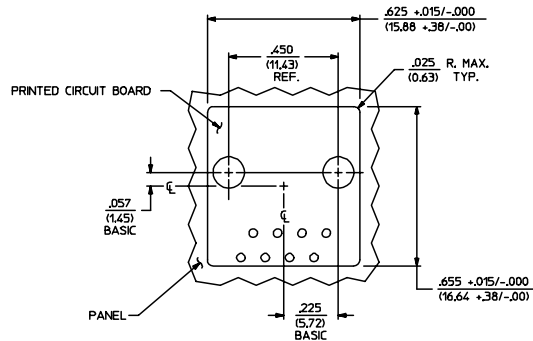
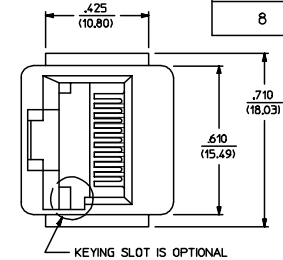
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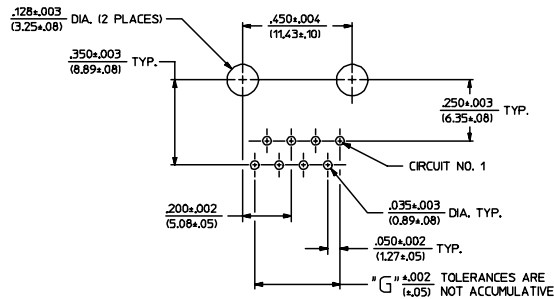
- 1) MATERIALS: HOUSING PARTS ARE MADE OF POLYESTER, RATED U.L. 94 V-0, COLOR IS BLACK; TERMINALS ARE .015/(0.38) THICK PHOSPHOR BRONZE.
- 2) TERMINAL PLATING OPTIONS PER ES-88-***:
 - A - SELECT GOLD IN CONTACT AREA; 50 MICROINCHES MIN.,
 - *SELECT TIN IN PC TAIL AREA; 100 MICROINCHES MIN.,
 - WITH 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-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 MICROINCHES 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 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. (SEE MOLEX DRAWING SDA-43576)
- 12) ENGRAVED NUMBERS ON HOUSING BODY ARE FOR HOLDING 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)
.062/(1.57)	.128 (3.25)	.120 +.015/- .025 (3.05 +.38/- .63)
.125/(3.18)	.191 (4.85)	.205 +.015/- .025 (5.21 +.38/- .63)

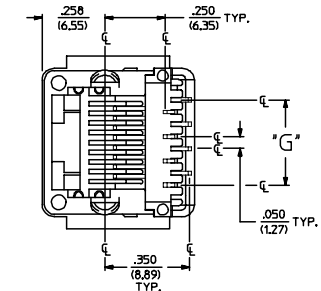
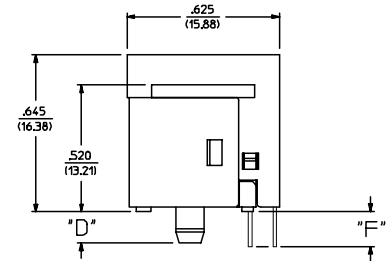
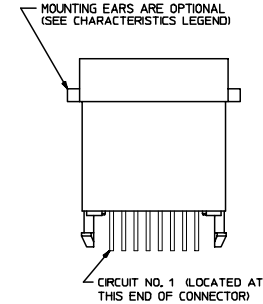
CONNECTOR SIZE	CIRCUIT SIZE	DIM. "G"
8	8	.350 (8.89)
8	6	.250 (6.35)
8	4	.150 (3.81)
8	2	.050 (1.27)



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. UFP2004-667 DRAWN: SCHMIDT 2004/03/03 CHKD: SCHMIDT 2004/03/03 APPR: F. SMITH 2004/03/03 REV	QUALITY SYMBOLS 0 0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION REVISIONS REV. DATE DESCRIPTION 1. 1990/10/12 2. 1990/10/12 3. 1990/10/12	TITLE ASSEMBLY, VERTICAL MODULAR JACKS (CONNECTOR SIZE 8) MOLEX INCORPORATED	MATERIAL NO. SDA-42410-****	DOCUMENT NO. 3 OF 4	SHEET NO. 3 OF 4
			4 PLACES	± .0005	± .0005	IN/MM					
			3 PLACES	± .0005	± .0005						
			2 PLACES	± .0005	± .0005						
SEE SHEET ONE EC NO. UFP2004-667 DRAWN: SCHMIDT 2004/03/03 CHKD: SCHMIDT 2004/03/03 APPR: F. SMITH 2004/03/03 REV	QUALITY SYMBOLS 0 0	DESCRIPTION	1 PLACE	± .0005	± .0005		THIRD ANGLE PROJECTION REVISIONS REV. DATE DESCRIPTION 1. 1990/10/12 2. 1990/10/12 3. 1990/10/12	TITLE ASSEMBLY, VERTICAL MODULAR JACKS (CONNECTOR SIZE 8) MOLEX INCORPORATED	MATERIAL NO. SDA-42410-****	DOCUMENT NO. 3 OF 4	SHEET NO. 3 OF 4
			ANGULAR	± 1/2°	± 1/2°						
			DRAFT WHERE APPLICABLE								
			MUST REMAIN WITHIN DIMENSIONS								

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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
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