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Part Number: [0424108792](#)
Status: **Active**
Overview: [modular_plugs_jacks](#)
Description: Modular Jack, Vertical, 8/6, 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 8/6
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

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

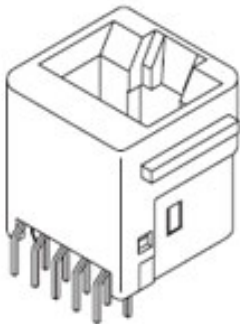


image - Reference only

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

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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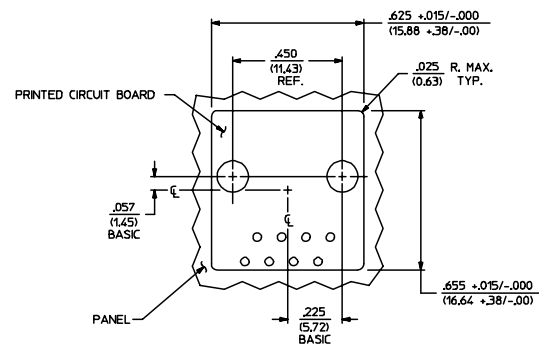
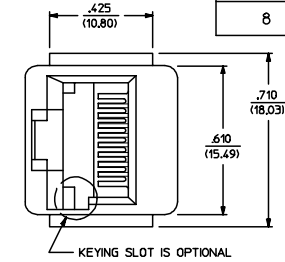
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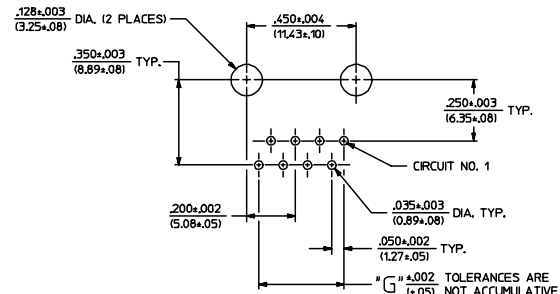
- 1) MATERIALS: HOUSING PARTS ARE MADE OF POLYESTER, RATED UL, 94 V-0, COLOR IS BLACK; TERMINALS ARE .015/(0.38) THICK PHOSPHOR BRONZE.
- 2) TERMINAL PLATING OPTIONS PER ES-88-***:
 - A - SELECT GOLD IN CONTACT AREA; 50 MICROINCHES MIN.,
 - *SELECT TIN IN PC TAIL AREA; 100 MICROINCHES MIN.,
 - WITH OVERALL 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)

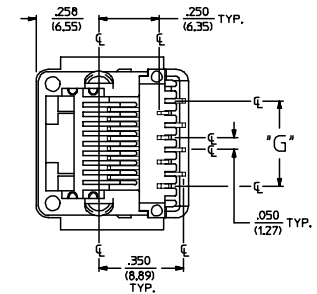
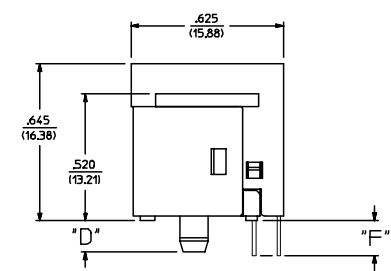
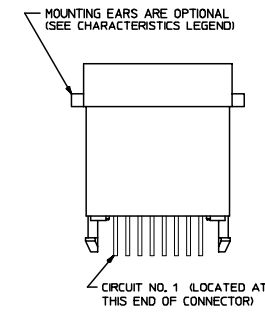
CONNECTOR SIZE	CIRCUIT SIZE	DIM. "G"
8	8	.350 (8.89)
8	6	.250 (6.35)
8	4	.150 (3.81)
8	2	.050 (1.27)



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	GENERAL TOLERANCES (UNLESS SPECIFIED) 4 PLACES ± .0005 3 PLACES ± .0005 2 PLACES ± .0005 1 PLACE ± .0005 ANGULAR ± 1/2° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SCALE 4:1 DESIGN UNITS INCH DIMENSION STYLE IN/MM	THIRD ANGLE PROJECTION REVISE ON CAD ONLY	TITLE ASSEMBLY, VERTICAL MODULAR JACKS (CONNECTOR SIZE 8) MOLEX MOLEX INCORPORATED MATERIAL NO. (DOCUMENT NO.) SEE SHEET 4 SDA-42410-****	SHEET NO. 3 OF 4

	20	19	18	17	16	15	14	13	12	11	42410	9	8	7	6	5	4	3	2	1	
	SIZE 4 VERTICAL MODJACK ASSEMBLIES																				
	PART CHARACTERISTICS																				
	ASSEMBLY ITEM NUMBER	EXTERNAL CONNECTOR SIZE	NUMBER OF POSITIONS	P.C. BOARD THICKNESS	MOUNTING EARS OPTION	TERMINAL PLATING OPTION															
	42410-4168	4 POS. BODY	4	.062/(1.57)	YES	A															
	42410-4170	↑	↑	.062/(1.57)	NO	A															
	42410-4264	↓	↓	.125/(3.18)	YES	A															
	42410-4266	4 POS. BODY	4	.125/(3.18)	NO	A															
	42410-4312	4 POS. BODY	2	.062/(1.57)	YES	A															
	42410-4314	↑	↑	.062/(1.57)	NO	A															
	42410-4408	↓	↓	.125/(3.18)	YES	A															
	42410-4410	4 POS. BODY	2	.125/(3.18)	NO	A															
	SIZE 6 VERTICAL MODJACK ASSEMBLIES																				
	PART CHARACTERISTICS																				
	ASSEMBLY ITEM NUMBER	EXTERNAL CONNECTOR SIZE	NUMBER OF POSITIONS	P.C. BOARD THICKNESS	MOUNTING EARS OPTION	TERMINAL PLATING OPTION															
	42410-6168	6 POS. BODY	6	.062/(1.57)	YES	A															
	42410-6170	↑	↑	.062/(1.57)	NO	A															
	42410-6264	↓	↓	.125/(3.18)	YES	A															
	42410-6266	6 POS. BODY	6	.125/(3.18)	NO	A															
	42410-6312	6 POS. BODY	4	.062/(1.57)	YES	A															
	42410-6314	↑	↑	.062/(1.57)	NO	A															
	42410-6320			.062/(1.57)	YES	B															
	42410-6408	↓	↓	.125/(3.18)	YES	A															
	42410-6410	6 POS. BODY	4	.125/(3.18)	NO	A															
	42410-6456	6 POS. BODY	2	.062/(1.57)	YES	A															
	42410-6458	↑	↑	.062/(1.57)	NO	A															
	42410-6552	↓	↓	.125/(3.18)	YES	A															
	42410-6554	6 POS. BODY	2	.125/(3.18)	NO	A															
	SIZE 8 VERTICAL MODJACK ASSEMBLIES																				
	PART CHARACTERISTICS																				
	ASSEMBLY ITEM NUMBER	EXTERNAL CONNECTOR SIZE	NUMBER OF POSITIONS	P.C. BOARD THICKNESS	KEYING OPTION	MOUNTING EARS OPTION	TERMINAL PLATING OPTION														
	42410-8312	8 POS. BODY	8	.062/(1.57)	NO	YES	A														
	42410-8314	↑	↑	.062/(1.57)	NO	NO	A														
	42410-8360			.062/(1.57)	YES	YES	A														
	42410-8362			.062/(1.57)	YES	NO	A														
	42410-8504			.125/(3.18)	NO	YES	A														
	42410-8506			.125/(3.18)	NO	NO	A														
	42410-8552	↓	↓	.125/(3.18)	YES	YES	A														
	42410-8554	8 POS. BODY	8	.125/(3.18)	YES	NO	A														
	42410-8600	8 POS. BODY	6	.062/(1.57)	NO	YES	A														
	42410-8602	↑	↑	.062/(1.57)	NO	NO	A														
	42410-8648			.062/(1.57)	YES	YES	A														
	42410-8650			.062/(1.57)	YES	NO	A														
	42410-8792			.125/(3.18)	NO	YES	A														
	42410-8794			.125/(3.18)	NO	NO	A														
	42410-8840	↓	↓	.125/(3.18)	YES	YES	A														
	42410-8842	8 POS. BODY	6	.125/(3.18)	YES	NO	A														
	42410-8888	8 POS. BODY	4	.062/(1.57)	NO	YES	A														
	42410-8890	↑	↑	.062/(1.57)	NO	NO	A														
	42410-8936			.062/(1.57)	YES	YES	A														
	42410-8938			.062/(1.57)	YES	NO	A														
	42410-9080			.125/(3.18)	NO	YES	A														
	42410-9082			.125/(3.18)	NO	NO	A														
	42410-9128	↓	↓	.125/(3.18)	YES	YES	A														
	42410-9130	8 POS. BODY	4	.125/(3.18)	YES	NO	A														
	42410-9176	8 POS. BODY	2	.062/(1.57)	NO	YES	A														
	42410-9178	↑	↑	.062/(1.57)	NO	NO	A														
	42410-9224			.062/(1.57)	YES	YES	A														
	42410-9226			.062/(1.57)	YES	NO	A														
	42410-9368			.125/(3.18)	NO	YES	A														
	42410-9370			.125/(3.18)	NO	NO	A														
	42410-9416	↓	↓	.125/(3.18)	YES	YES	A														
	42410-9418	8 POS. BODY	2	.125/(3.18)	YES	NO	A														

SEE SHEET ONE
EC NO: UFP2004-1617
DRAWN:LSCHMDT 2004/03/03
CHKD:LSCHMDT 2004/03/03
APPR:FSMITH 2004/03/03
N

QUALITY SYMBOLS
▽ 0
▽ 0

GENERAL TOLERANCES (UNLESS SPECIFIED)
4 PLACES ±
3 PLACES ±
2 PLACES ±
1 PLACE ±
ANGULAR ±1/2°
DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

SCALE

INCH
DIMENSION STYLE
IN/MM

DESIGN UNITS
INCH

THIRD ANGLE PROJECTION
REVISE ON CAD ONLY

TITLE
ASSEMBLY, VERTICAL MODULAR JACKS

MOLEX MOLEX INCORPORATED

DRAWN BY DATE
GLT 1990/10/12
CHECKED BY DATE
BAP 1990/10/12
APPROVED BY DATE
RAS 1990/10/12

MATERIAL NO.
SEE CHART

DOCUMENT NO.
SDA-42410-****

SHEET NO.
4 OF 4

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