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Part Number: [0424109128](#)
Status: **Active**
Overview: [modular_plugs_jacks](#)
Description: Modular Jack, Vertical, 8/4, Keyed, Panel Stops

Documents:
[3D Model](#) [Product Specification PS-42410 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
UL E107635

General

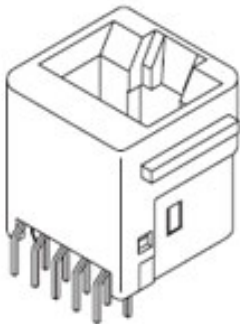
Product Family Modular Jacks/Plugs
Series [42410](#)
Component Type PCB Jack
Magnetic No
Overview [modular_plugs_jacks](#)
Performance Category 3
Power over Ethernet (PoE) N/A
Product Name RJ45

Physical

Boot Color N/A
Color - Resin Black
Durability (mating cycles max) 500
Flammability 94V-0
Inverted / Top Latch N/A
Keying to Mating Part Yes
Lightpipes/LEDs None
Material - Metal Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin Polyester
Orientation Vertical (Top Entry)
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.125 In
PCB Thickness Recommended (mm) 3.18 mm
Packaging Type Tray
Panel Mount With Flange
Pitch - Mating Interface (in) 0.040 In
Pitch - Mating Interface (mm) 1.02 mm
Pitch - Term. Interface (in) 0.050 In
Pitch - Term. Interface (mm) 1.27 mm
Ports 1
Positions / Loaded Contacts 8/4
Surface Mount Compatible (SMC) No
Temperature Range - Operating -40°C to +85°C
Termination Interface: Style Through Hole
Waterproof / Dustproof No
Wire/Cable Type N/A

Electrical

Current - Maximum per Contact 1.5A



Series

image - Reference only

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Not Reviewed
**Halogen-Free
Status**

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](#)

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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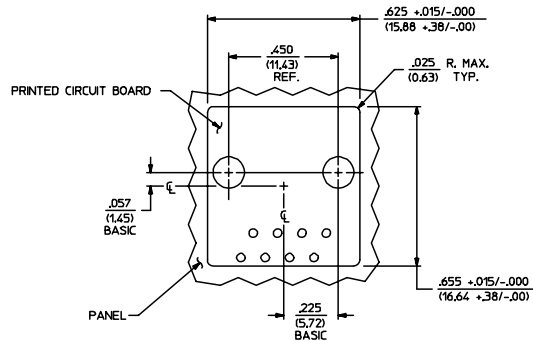
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NOTES:

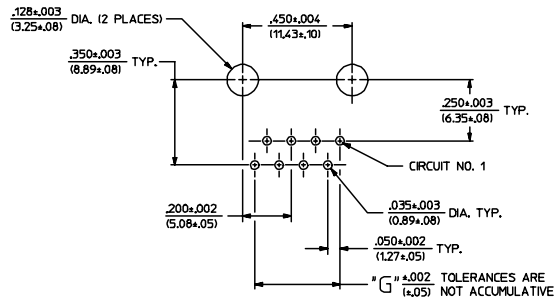
- 1) MATERIALS: HOUSING PARTS ARE MADE OF POLYESTER, RATED U.L. 94 V-0, COLOR IS BLACK; TERMINALS ARE .015/(0.38) THICK PHOSPHOR BRONZE.
- 2) TERMINAL PLATING OPTIONS PER ES-88-***:
 - A - SELECT GOLD IN CONTACT AREA; 50 MICROINCHES MIN.,
 - *SELECT TIN IN PC TAIL AREA; 100 MICROINCHES MIN.,
 - WITH 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 N	QUALITY SYMBOLS 0 0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 4:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION	REVISE ON CAD ONLY		
					DIMENSION STYLE			TITLE		
					IN/MM			ASSEMBLY, VERTICAL MODULAR JACKS (CONNECTOR SIZE 8)		
			4 PLACES	± .0005	INCH	DRAWN BY GLT		DATE 1990/10/12	MOLEX MOLEX INCORPORATED	
			3 PLACES	± .001	INCH	CHECKED BY BAP		DATE 1990/10/12	MATERIAL NO. SDA-42410-****	
			2 PLACES	± .002	INCH	APPROVED BY RAS		DATE 1990/10/12	DOCUMENT NO. SEE SHEET 4 SDA-42410-****	
			1 PLACE	± .005	INCH	DRAFT WHERE APPLICABLE		SHEET NO. 3 OF 4		
			ANGULAR ±1/2°		MUST REMAIN WITHIN DIMENSIONS			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

	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						SIZE 8 VERTICAL MODJACK ASSEMBLIES																		
	PART CHARACTERISTICS						PART CHARACTERISTICS																		
	ASSEMBLY ITEM NUMBER	EXTERNAL CONNECTOR SIZE	NUMBER OF POSITIONS	P.C. BOARD THICKNESS	MOUNTING EARS OPTION	TERMINAL PLATING OPTION	ASSEMBLY ITEM NUMBER	EXTERNAL CONNECTOR SIZE	NUMBER OF POSITIONS	P.C. BOARD THICKNESS	KEYING OPTION	MOUNTING EARS OPTION	TERMINAL PLATING OPTION												
	42410-4168	4 POS. BODY	4	.062/(1.57)	YES	A	42410-8312	8 POS. BODY	8	.062/(1.57)	NO	YES	A												
	42410-4170	↑	↑	.062/(1.57)	NO	A	42410-8314	↑	↑	.062/(1.57)	NO	NO	A												
	42410-4264	↓	↓	.125/(3.18)	YES	A	42410-8360	↑	↑	.062/(1.57)	YES	YES	A												
	42410-4266	4 POS. BODY	4	.125/(3.18)	NO	A	42410-8362	↑	↑	.062/(1.57)	YES	NO	A												
							42410-8504	↑	↑	.125/(3.18)	NO	YES	A												
	42410-4312	4 POS. BODY	2	.062/(1.57)	YES	A	42410-8506	↑	↑	.125/(3.18)	NO	NO	A												
	42410-4314	↑	↑	.062/(1.57)	NO	A	42410-8552	↓	↓	.125/(3.18)	YES	YES	A												
	42410-4408	↓	↓	.125/(3.18)	YES	A	42410-8554	8 POS. BODY	8	.125/(3.18)	YES	NO	A												
	42410-4410	4 POS. BODY	2	.125/(3.18)	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												



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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