

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0424108602](#)
Status: **Active**
Overview: [modular_plugs_jacks](#)
Description: Modular Jack, Vertical, 8/6

Documents:

3D Model	Product Specification PS-42410 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E107635

General

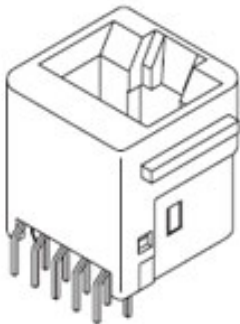
Product Family	Modular Jacks/Plugs
Series	42410
Comments	Flush Mount Flangeless 2 PCB Thick
Component Type	PCB Jack
Magnetic	No
Overview	modular_plugs_jacks
Performance Category	3
Power over Ethernet (PoE)	N/A
Product Name	RJ45

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)	0.062 In
PCB Thickness Recommended (mm)	1.60 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	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



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](#)

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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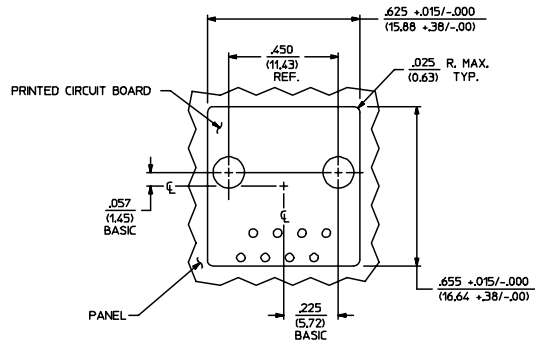
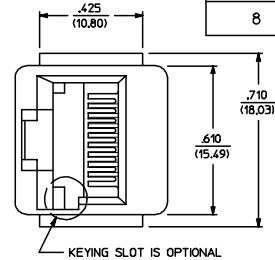
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NOTES:

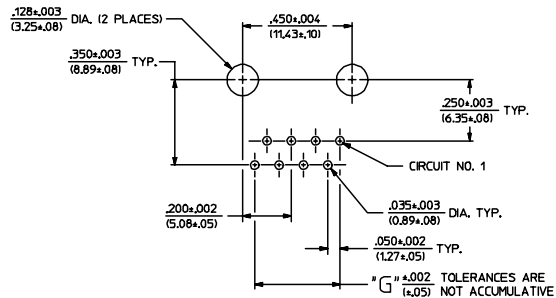
- MATERIALS: HOUSING PARTS ARE MADE OF POLYESTER, RATED U.L. 94 V-0, COLOR IS BLACK; TERMINALS ARE .015/(0.38) THICK PHOSPHOR BRONZE.
- TERMINAL PLATING OPTIONS PER ES-88-***:
 - SELECT GOLD IN CONTACT AREA; 50 MICROINCHES MIN.,
 - SELECT TIN IN PC TAIL AREA; 100 MICROINCHES MIN.,WITH OVERALL NICKEL 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.
- THESE MODULAR JACKS MEET THE PERFORMANCE REQUIREMENTS OF MOLEX PRODUCT SPECIFICATION PS-42410.
- CONNECTORS ARE TO BE PACKED IN THERMOFORMED TRAYS, PER PACKAGING SPECIFICATION PK-42410-492.
- ALL JACKS ARE DESIGNED TO BE USED WITH .062/(1.57) OR .125/(3.18) THICK P.C. BOARDS.
- ALL JACKS CONFORM TO AND ACCEPT PLUGS WHICH CONFORM TO FCC RULES AND REGULATIONS PART 68, SUBPART F, WHEN PLATED WITH 50 MICROINCHES GOLD.
- ALL JACKS MUST BE CAPABLE OF FITTING INTO MOLEX GAGE G-42410 (CONNECTOR SIZE 4).
- SEE SHEETS 1 & 4 FOR CONNECTOR SIZE 4.
- SEE SHEETS 2 & 4 FOR CONNECTOR SIZE 6.
- SEE SHEET 4 FOR ASSEMBLY ITEM NUMBERS.
- THIS MODULAR JACK ASSEMBLY IS ALSO AVAILABLE IN A UL 94V-0 RATED, GLASS-FILLED NYLON. (SEE MOLEX DRAWING SDA-43576)
- ENGRAVED NUMBERS ON HOUSING BODY ARE FOR HOLDING IDENTIFICATION ONLY. THEY ARE NOT INTENDED FOR ASSEMBLY IDENTIFICATION PURPOSES.
- ALL UNTOLERANCED DIMENSIONS ARE SHOWN FOR REFERENCE ONLY.

42410

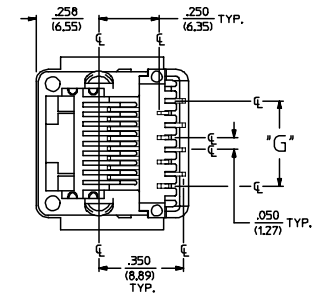
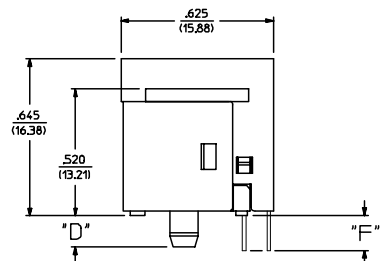
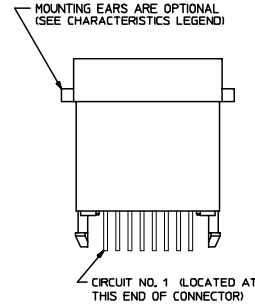
P.C. BOARD THICKNESS	DIM. "D" (MTG. PEGS)	DIM. "F" (P.C. TAILS)	CONNECTOR SIZE	CIRCUIT SIZE	DIM. "G"
.062/(1.57)	.128 (3.25)	.120 +.015/-.025 (3.05 +.38/-.63)	8	8	.350 (8.89)
.125/(3.18)	.191 (4.85)	.205 +.015/-.025 (5.21 +.38/-.63)	8	6	.250 (6.35)
			8	4	.150 (3.81)
			8	2	.050 (1.27)



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 ± 3 PLACES ± 2 PLACES ± 1 PLACE ± 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	ASSEMBLY, VERTICAL MODULAR JACKS (CONNECTOR SIZE 8) 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
DESCRIPTION
REV

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

THIRD ANGLE PROJECTION
REVISE ON CAD ONLY
TITLE
ASSEMBLY, VERTICAL MODULAR JACKS
MATERIAL NO. MOLEX INCORPORATED
DOCUMENT NO. SDA-42410-****
SHEET NO. 4 OF 4

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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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