

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0424106168](#)
Status: **Active**
Overview: [modular_plugs_jacks](#)
Description: Modular Jack, Vertical, 6/6, 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	RJ11

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	6/6
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

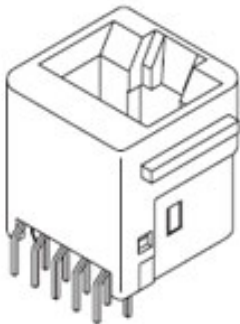


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Contains SVHC: No
**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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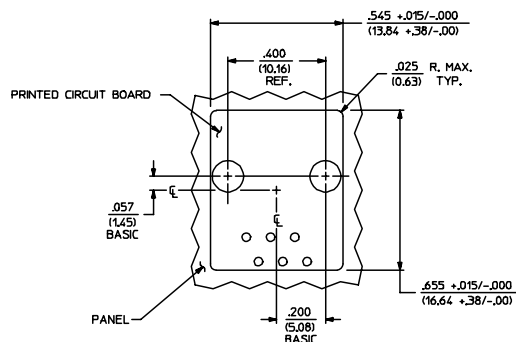
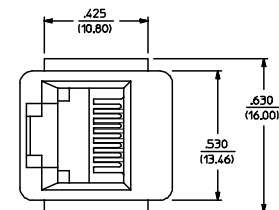
1

NOTES:

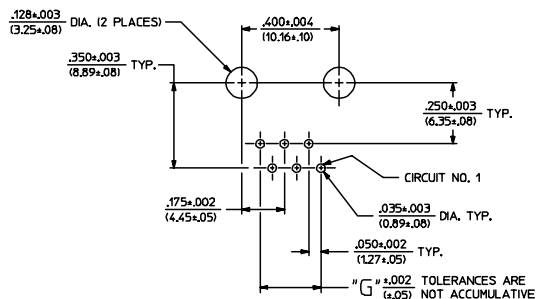
- 1) MATERIALS: HOUSING PARTS ARE MADE OF POLYESTER, RATED UL 94 V-0. COLOR IS BLACK, TERMINALS ARE .015/(0.38) THICK PHOSPHOR BRONZE.
- 2) TERMINAL PLATING OPTIONS PER ES-88-***:
- A - SELECT GOLD IN CONTACT AREA: 50 MICRONS MIN.
 - *SELECT TIN IN PC TAIL AREA: 100 MICRONS MIN.
 - WITH OVERALL NICKEL UNDERPLATE: 50 MICRONS MIN.
 - B - SELECT GOLD IN CONTACT AREA: 15 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 1 & 4 FOR CONNECTOR SIZE 4.
- 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.

P.C. BOARD THICKNESS	DIM. 'D' (MTG. PEGS)	DIM. 'F' (P.C. TAILS)
0.062/(1.57)	.128 (3.25)	.120 +.015/-.025 (3.05 +.38/-.63)
0.125/(3.18)	.191 (4.85)	.205 +.015/-.025 (5.21 +.38/-.63)

CONNECTOR SIZE	CIRCUIT SIZE	DIM. 'G'
6	6	.250 (6.35)
6	4	.150 (3.81)
6	2	.050 (1.27)



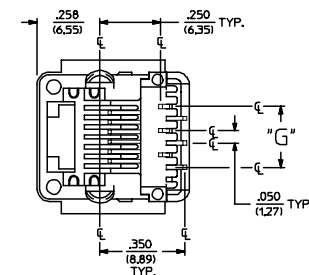
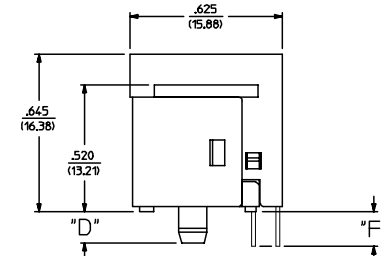
PANEL CUT-OUT FOR CONNECTOR SIZE 6



P.C. BOARD LAYOUT FOR CONNECTOR SIZE 6

MOUNTING EARS ARE OPTIONAL

CIRCUIT NO. 1 (LOCATED AT THIS END OF CONNECTOR)



SIZE 6 MODULAR JACK LOADED WITH 6 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	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 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 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 (CONNECTOR SIZE 6) MOLEX INCORPORATED MATERIAL NO. (DOCUMENT NO.) SEE SHEET 4 SDA-42410-****	SHEET NO. 2 OF 4

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

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SIZE 4 VERTICAL MODJACK ASSEMBLIES

Y-NOT TOOLED

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

Y-NOT TOOLED

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

Y-NOT TOOLED

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: UCP2004-167

DRAWN: SCHMIDT 2004/03/03

CHECK: SCHMIDT 2004/03/03

APPROVE: SMITH 2004/03/03

REV: DESCRIPTION

QUALITY SYMBOLS

▽.0

▽.0

GENERAL TOLERANCES (UNLESS SPECIFIED)

mmINCH

4 PLACES ±.---±.---

3 PLACES ±.---±.---

2 PLACES ±.---±.---

1 PLACE ±.---±.---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE

MUST REMAIN WITHIN DIMENSIONS

SCALE ---INCH

DESIGN UNITS IN/MM

DRAWN BY DATE

GLT 1990/10/12

CHECKED BY DATE

BAP 1990/10/12

APPROVED BY DATE

RAS 1990/10/12

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THIRD ANGLE PROJECTION

REVISE ON CAD ONLY

ASSEMBLY, VERTICAL MODULAR JACKS

MATERIAL NO. DOCUMENT NO. SHEET NO.

SEE CHART SDA-42410-**** 4 OF 4

MOLEX INCORPORATED

INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

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**Стандарт
Электрон
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

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