

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0424109130

Status:

Active

Overview:

modular_plugs_jacks

Description:

Modular Jack, Vertical, 8/4, Keyed

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
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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](#)

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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NOTES:

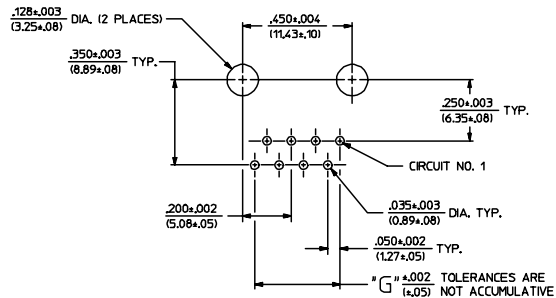
- 1) MATERIALS: HOUSING PARTS ARE MADE OF POLYESTER, RATED U.L. 94 V-0, COLOR IS BLACK; TERMINALS ARE .015/(0.38) THICK PHOSPHOR BRONZE.
- 2) TERMINAL PLATING OPTIONS PER ES-88-***:
 - A - SELECT GOLD IN CONTACT AREA; 50 MICROINCHES MIN.,
 - *SELECT TIN IN PC TAIL AREA; 100 MICROINCHES MIN.,
 - WITH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

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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: SCHMIDT 2004/03/03

REV: 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 --- 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

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

THIRD ANGLE PROJECTION

REVISE ON CAD ONLY

ASSEMBLY, VERTICAL MODULAR JACKS

MATERIAL NO. DOCUMENT NO. SHEET NO.

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

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1b. frame: D.P.M.E.T

Rev. C 2002/05/05

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

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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