

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0424109176

Status:

Active

Overview:

modular_plugs_jacks

Description:

Modular Jack, Vertical, 8/2, Panel Stops

Documents:

3D Model

Drawing (PDF)

Product Specification PS-42410 (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

8/2

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

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

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

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

20

19

18

17

16

15

14

13

12

11

42410

9

8

7

6

5

4

3

2

1

NOTES:

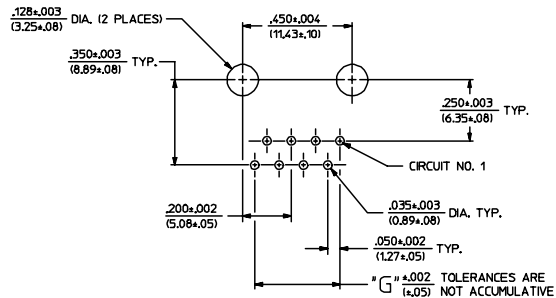
- 1) MATERIALS: HOUSING PARTS ARE MADE OF POLYESTER, RATED U.L. 94 V-0, COLOR IS BLACK; TERMINALS ARE .015/(0.38) THICK PHOSPHOR BRONZE.
- 2) TERMINAL PLATING OPTIONS PER ES-88-***:
 - A - SELECT GOLD IN CONTACT AREA; 50 MICROINCHES MIN.,
 - *SELECT TIN IN PC TAIL AREA; 100 MICROINCHES MIN.,
 - WITH 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		
			4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm INCH	± .005 ± .005 ± .005 ± .005	DIMENSION STYLE IN/MM		TITLE ASSEMBLY, VERTICAL MODULAR JACKS (CONNECTOR SIZE 8) MOLEX INCORPORATED	
			ANGULAR ±1/2°		DRAWN BY GLT	DATE 1990/10/12		 MOLEX INCORPORATED	
			DRAFT WHERE APPLICABLE		CHECKED BY BAP	DATE 1990/10/12			
			MUST REMAIN WITHIN DIMENSIONS		APPROVED BY RAS	DATE 1990/10/12			
					MATERIAL NO. SEE SHEET 4 SDA-42410-****			SHEET NO. 3 OF 4	
		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

10

9

8

7

6

5

4

3

2

1

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

REV

DESCRIPTION

EC NO: UCP2004-167

DRAWN: SCHMIDT 2004/03/03

CHECK: SCHMIDT 2004/03/03

APPROVE: SCHMIDT 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

DESIGN UNITS

INCH

DIMENSION STYLE

IN/MM

DRAWN BY

DATE

1990/10/12

CHECKED BY

DATE

1990/10/12

BAP

APPROVED BY

DATE

1990/10/12

RAS

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.

4 OF 4

D

19

18

17

16

15

14

13

12

11

10

9

8

7

6

5

4

3

2

1

19

18

17

16

15

14

13

12

11

10

9

8

7

6

5

4

3

2

1

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).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А