

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](mailto: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](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**

20

19

18

17

16

15

14

13

12

11

42410

9

8

7

6

5

4

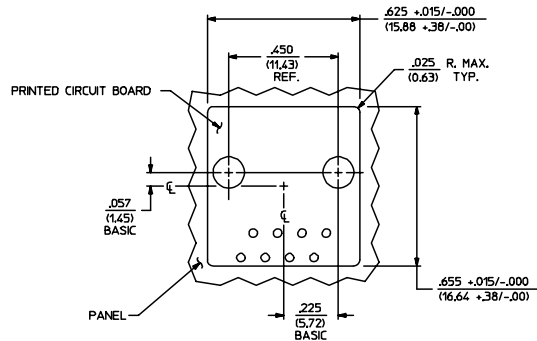
3

2

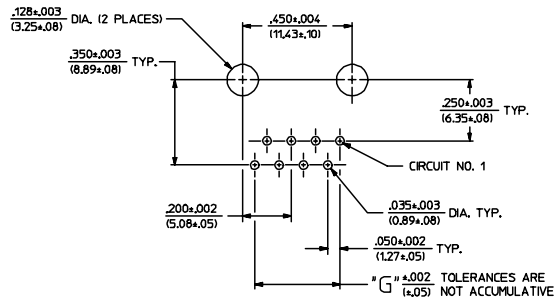
1

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.



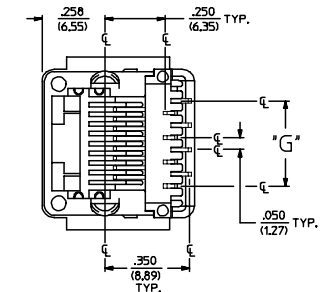
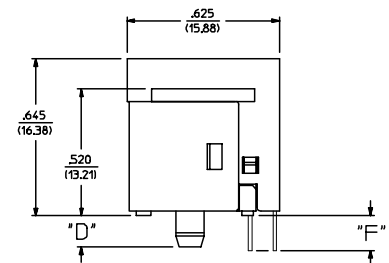
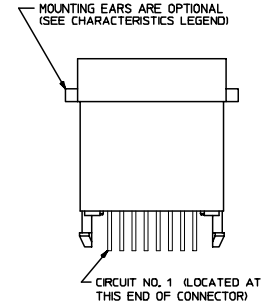
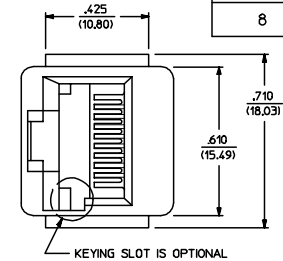
PANEL CUT-OUT FOR CONNECTOR SIZE 8



P.C. BOARD LAYOUT FOR CONNECTOR SIZE 8

| P.C. BOARD THICKNESS | DIM. "D" (MTG. PEGS) | DIM. "F" (P.C. TAILS)               |
|----------------------|----------------------|-------------------------------------|
| .062/(1.57)          | .128 (3.25)          | .120 +.015/-0.025 (3.05 +.38/-0.63) |
| .125/(3.18)          | .191 (4.85)          | .205 +.015/-0.025 (5.21 +.38/-0.63) |

| 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) |



SIZE 8 MODULAR JACK LOADED WITH 8 TERMINALS SHOWN ABOVE

(SEE SHEET 4 FOR PART NUMBER AVAILABILITY)

| QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                         | SCALE 4:1 | DESIGN UNITS INCH | THIRD ANGLE PROJECTION | REVISE ON CAD ONLY |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------|------------------------|--------------------|
|                 |                                                                                                                               |           |                   |                        |                    |
| 0               | 4 PLACES ± .005                                                                                                               | mm        | INCH              |                        |                    |
| 0               | 3 PLACES ± .005                                                                                                               | mm        | INCH              |                        |                    |
| 0               | 2 PLACES ± .005                                                                                                               | mm        | INCH              |                        |                    |
| 0               | 1 PLACE ± .005                                                                                                                | mm        | INCH              |                        |                    |
| 0               | ANGULAR ±1/2°                                                                                                                 | mm        | INCH              |                        |                    |
| 0               | DRAFT WHERE APPLICABLE                                                                                                        | mm        | INCH              |                        |                    |
| 0               | MUST REMAIN WITHIN DIMENSIONS                                                                                                 | mm        | INCH              |                        |                    |
| 0               | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | mm        | INCH              |                        |                    |

|               |                    |                        |                        |                      |
|---------------|--------------------|------------------------|------------------------|----------------------|
| SEE SHEET ONE | EC NO. UFP2004-667 | DRW:LSCHMDT 2004/03/03 | CHK:LSCHMDT 2004/03/03 | APP:FSMTH 2004/03/03 |
| N             |                    |                        |                        |                      |

|                                                     |                    |                  |
|-----------------------------------------------------|--------------------|------------------|
| ASSEMBLY, VERTICAL MODULAR JACKS (CONNECTOR SIZE 8) | MOLEX INCORPORATED | SHEET NO. 3 OF 4 |
| DATE 1990/10/12                                     | DATE 1990/10/12    | DATE 1990/10/12  |
| DRAWN BY                                            | CHECKED BY         | APPROVED BY      |
| GLT                                                 | BAP                | RAS              |
| DATE 1990/10/12                                     | DATE 1990/10/12    | DATE 1990/10/12  |



## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9