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Part Number:

0424104168

Status:

Active

Description:

Modular Jack, Vertical, 4/4, 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               |
| Component Type            | PCB Jack            |
| Magnetic                  | No                  |
| Performance Category      | 3                   |
| Power over Ethernet (PoE) | N/A                 |
| Product Name              | RJ9                 |

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          | None                 |
| 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) | 0.062 In             |
| PCB Thickness Recommended (mm) | 1.57 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              |
| 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    | 4/4                  |
| 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                  |

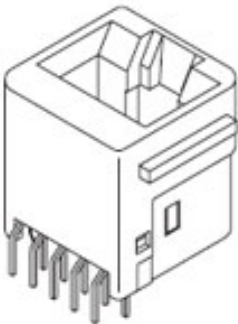


image - Reference only

Series

**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**Halogen-Free**  
**Status**  
**Not Halogen-Free**

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

**Electrical**

|                               |               |
|-------------------------------|---------------|
| Current - Maximum per Contact | 1.5A          |
| 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   |

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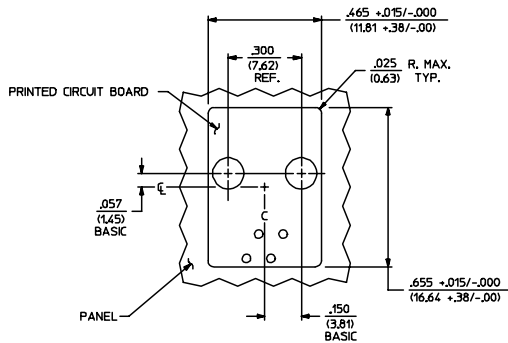
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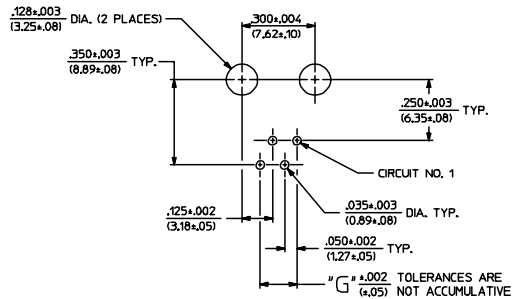
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NOTES:

- 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.
  - \*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 2 & 4 FOR CONNECTOR SIZE 6.
- 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.



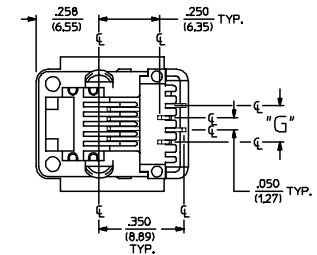
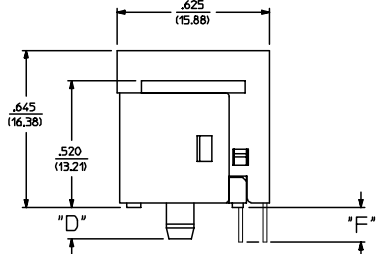
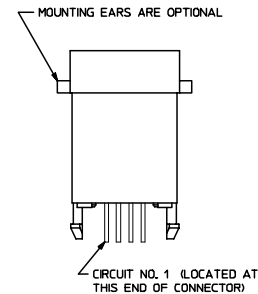
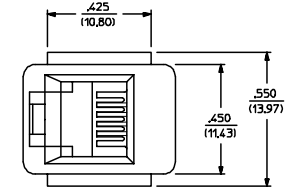
PANEL CUT-OUT FOR CONNECTOR SIZE 4



P.C. BOARD LAYOUT FOR CONNECTOR SIZE 4

| P.C. BOARD THICKNESS | DIM. "D" (MTG. PEGS) | DIM. "F" (P.C. TAILS)                 |
|----------------------|----------------------|---------------------------------------|
| 0.062"               | .128<br>(3.25)       | .120 +.015/-.025<br>(3.05 +.38/- .63) |
| 0.125"               | .191<br>(4.85)       | .205 +.015/-.025<br>(5.21 +.38/- .63) |

| CONNECTOR SIZE | CIRCUIT SIZE | DIM. "G"       |
|----------------|--------------|----------------|
| 4              | 4            | .150<br>(3.81) |
| 4              | 2            | .050<br>(1.27) |



SIZE 4 MODULAR JACK LOADED WITH 4 TERMINALS SHOWN ABOVE  
(SEE SHEET 4 FOR PART NUMBER AVAILABILITY)

|                                                                                                                                     |                           |                                       |                 |                                                                                                                               |                                                           |                                                                                                              |                    |                                   |  |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------|--|
| LEAD FREE PLATING<br>EC NO. UCP2004-1617<br>DRAWN: SCHMIDT 2004/03/03<br>CHKD: SCHMIDT 2004/03/03<br>APPR: F. SMITH 2004/03/03<br>N | QUALITY SYMBOLS<br>0<br>0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |                 | SCALE 4:1                                                                                                                     | DESIGN UNITS INCH                                         |  THIRD ANGLE PROJECTION | REVISE ON CAD ONLY |                                   |  |
|                                                                                                                                     |                           | DESCRIPTION                           | DIMENSION STYLE |                                                                                                                               | DRAWN BY DATE<br>GLT 1990/10/12                           |                                                                                                              |                    | CHECKED BY DATE<br>BAP 1990/10/12 |  |
|                                                                                                                                     |                           |                                       | mm INCH         | IN/MM                                                                                                                         |                                                           |                                                                                                              |                    |                                   |  |
|                                                                                                                                     |                           |                                       |                 |                                                                                                                               |                                                           |                                                                                                              |                    |                                   |  |
|                                                                                                                                     |                           |                                       |                 |                                                                                                                               |                                                           |                                                                                                              |                    |                                   |  |
|                                                                                                                                     |                           |                                       |                 |                                                                                                                               |                                                           |                                                                                                              |                    |                                   |  |
|                                                                                                                                     |                           | ANGULAR ±1/2°                         |                 | APPROVED BY DATE<br>RAS 1990/10/12                                                                                            | MATERIAL NO. (DOCUMENT NO.)<br>SEE SHEET 4 SDA-42410-**** |                                                                                                              |                    |                                   |  |
|                                                                                                                                     |                           | DRAFT WHERE APPLICABLE                |                 | MUST REMAIN WITHIN DIMENSIONS                                                                                                 |                                                           |                                                                                                              |                    | SHEET NO. 1 OF 4                  |  |
|                                                                                                                                     |                           |                                       |                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                           |                                                                                                              |                    | D                                 |  |
|                                                                                                                                     |                           |                                       |                 |                                                                                                                               |                                                           |                                                                                                              |                    |                                   |  |
|                                                                                                                                     |                           |                                       |                 |                                                                                                                               |                                                           |                                                                                                              |                    |                                   |  |
|                                                                                                                                     |                           |                                       |                 |                                                                                                                               |                                                           |                                                                                                              |                    |                                   |  |





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