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**Part Number:** [0424106168](#)  
**Status:** **Active**  
**Overview:** [modular\\_plugs\\_jacks](#)  
**Description:** Modular Jack, Vertical, 6/6, Panel Stops

**Documents:**

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-42410 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a> |

**Agency Certification**

|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E107635 |

**General**

|                           |                                     |
|---------------------------|-------------------------------------|
| Product Family            | Modular Jacks/Plugs                 |
| Series                    | <a href="#">42410</a>               |
| Comments                  | Flush Mount Flangeless 2 PCB Thick  |
| Component Type            | PCB Jack                            |
| Magnetic                  | No                                  |
| Overview                  | <a href="#">modular_plugs_jacks</a> |
| 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 |

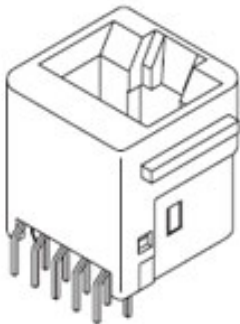


image - Reference only

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](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   |

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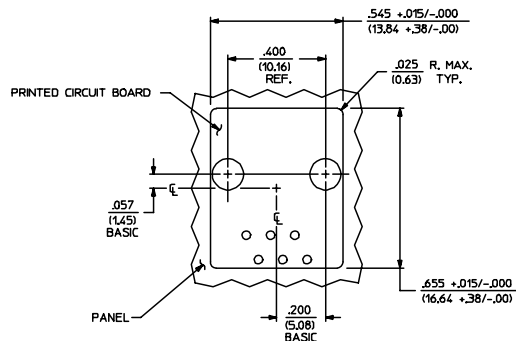
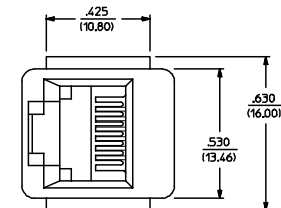
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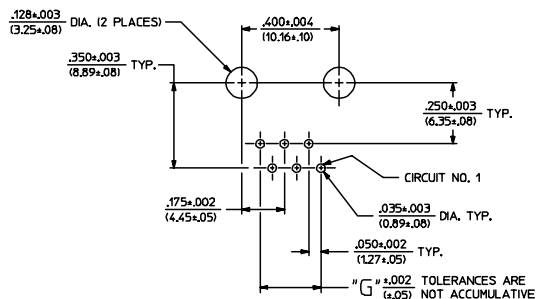
- 1) MATERIALS: HOUSING PARTS ARE MADE OF POLYESTER, RATED UL 94 V-0. COLOR IS BLACK, TERMINALS ARE .015/(0.38) THICK PHOSPHOR BRONZE.
- 2) TERMINAL PLATING OPTIONS PER ES-88-\*\*\*:
- A - SELECT GOLD IN CONTACT AREA: 50 MICRONS MIN.  
\*SELECT TIN IN PC TAIL AREA: 100 MICRONS MIN.  
WITH OVERALL NICKEL 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<br>(3.25)       | .120 +.015/-.025<br>(3.05 +.38/-.63) |
| 0.125/(3.18)         | .191<br>(4.85)       | .205 +.015/-.025<br>(5.21 +.38/-.63) |

| CONNECTOR SIZE | CIRCUIT SIZE | DIM. 'G'       |
|----------------|--------------|----------------|
| 6              | 6            | .250<br>(6.35) |
| 6              | 4            | .150<br>(3.81) |
| 6              | 2            | .050<br>(1.27) |



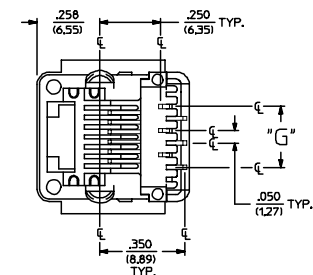
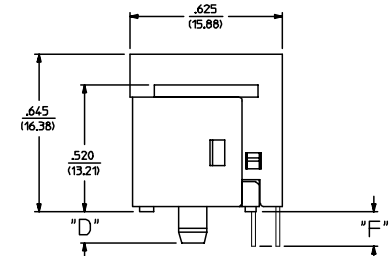
PANEL CUT-OUT FOR CONNECTOR SIZE 6



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<br>EC NO: UFP2004-667<br>DRAWN:LSCHMDT 2004/03/03<br>CHKD:LSCHMDT 2004/03/03<br>APPR:FSMITH 2004/03/03<br>N | QUALITY SYMBOLS<br>0<br>0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>DIMENSION STYLE<br>4 PLACES ±<br>3 PLACES ±<br>2 PLACES ±<br>1 PLACE ±<br>ANGULAR ±1/2°<br>DRAFT WHERE APPLICABLE<br>MUST REMAIN WITHIN DIMENSIONS | SCALE<br>4:1<br>DESIGN UNITS<br>INCH<br>IN/MM | THIRD ANGLE PROJECTION<br>REVISIONS<br>REV<br>DESCRIPTION | TITLE<br>ASSEMBLY, VERTICAL MODULAR JACKS (CONNECTOR SIZE 6)<br>MOLEX INCORPORATED | MATERIAL NO.<br>DOCUMENT NO.<br>SHEET NO. | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |
|                                                                                                                           |                           |                                                                                                                                                                                             |                                               |                                                           |                                                                                    |                                           |                                                                                                                               |
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