



Part Number : [428788410](#)  
Product Description : Modular Jack, Vertical,  
Low Profile, 8/8  
Series Number : 42878  
Status : Active  
Product Category : Modular Jacks and Plugs



## Documents & Resources

Drawings  
[428788410\\_sd.pdf](#)  
[PK-42878-492-001.pdf](#)

3D Models and Design Files  
[428788410\\_stp.zip](#)

Specifications  
[PS-42878-001.pdf](#)  
[TS-42878-001-001.pdf](#)

## Product Environment Compliance

### Compliance

|                    |                                                                                       |
|--------------------|---------------------------------------------------------------------------------------|
| GADSL/IMDS         | Compliant with Exemption 44; 34; 33                                                   |
| China RoHS         |  |
| EU ELV             | Not Relevant                                                                          |
| Low-Halogen Status | Not Low-Halogen per IEC 61249-2-21                                                    |
| REACH SVHC         | Not Contained per D(2024)6225-DC (07 Nov 2024)                                        |
| EU RoHS            | Compliant per EU 2015/863                                                             |

### Multiple Part Product Compliance Statements

- Eu RoHS
- REACH SVHC
- Low-Halogen

### Multiple Part Industry Compliance Documents

- IPC 1752A Class C

- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

## EU RoHS Certificate of Compliance

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### Part Details

#### General

|                           |                                          |
|---------------------------|------------------------------------------|
| Status                    | Active                                   |
| Category                  | Modular Jacks and Plugs                  |
| Series                    | 42878                                    |
| Description               | Modular Jack, Vertical, Low Profile, 8/8 |
| Comments                  | Flush Mount, Flangeless, 2 PCB Thick     |
| Component Type            | PCB Jack                                 |
| Magnetic                  | No                                       |
| Performance Category      | 3                                        |
| Power over Ethernet (PoE) | N/A                                      |
| Product Name              | Modular Jack 8/8,RJ45                    |
| UPC                       | 800754383233                             |

#### Agency

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

#### Electrical

|                               |               |
|-------------------------------|---------------|
| Current - Maximum per Contact | 1.5A          |
| Shielded                      | No            |
| Voltage - Maximum             | 150V AC (RMS) |

#### Physical

|                                |       |
|--------------------------------|-------|
| Boot Color                     | N/A   |
| Color - Resin                  | Black |
| Durability (mating cycles max) | 500   |
| Flammability                   | 94V-0 |

|                                |                      |
|--------------------------------|----------------------|
| Inverted / Top Latch           | N/A                  |
| Jack Height                    | 12.70mm              |
| Lightpipes/LEDs                | None                 |
| Material - Metal               | Phosphor Bronze      |
| Material - Plating Mating      | Gold                 |
| Material - Plating Termination | Tin                  |
| Material - Resin               | Polyester            |
| Net Weight                     | 2.255/g              |
| Orientation                    | Vertical (Top Entry) |
| Packaging Type                 | Tray                 |
| PCB Locator                    | Yes                  |
| PCB Retention                  | Yes                  |
| PCB Thickness - Recommended    | 1.57mm               |
| Pitch - Mating Interface       | 1.02mm               |
| Pitch - Termination Interface  | 1.27mm               |
| Plating min - Mating           | 1.270µm              |
| Plating min - Termination      | 2.540µm              |
| Port Configuration             | 1x1                  |
| Positions / Loaded Contacts    | 8/8                  |
| Temperature Range - Operating  | -40° to +85°C        |
| Termination Interface Style    | Through Hole         |
| Waterproof / Dustproof         | No                   |
| Wire/Cable Type                | N/A                  |

## Solder Process Data

|                              |      |
|------------------------------|------|
| Max-Duration                 | 5    |
| Lead-Free Process Capability | WAVE |
| Max-Cycle                    | 1    |
| Max-Temp                     | 235  |

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## Mates With / Use With

### Mates with Part(s)

|             |              |
|-------------|--------------|
| Description | Part Number  |
| Mates With  | FCC 68 Plugs |

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