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**Part Number:** [0428788744](#)  
**Status:** **Active**  
**Overview:** [Modular Jacks and Plugs](#)  
**Description:** Modular Jack, Vertical, Low Profile, 8/6, Keyed, Panel Stops

**Documents:**

|  |  |
|--|--|
| <a href="#">3D Model</a>                                 | <a href="#">Product Specification TS-42878-001-001 (PDF)</a> |
| <a href="#">Drawing (PDF)</a>                            | <a href="#">Packaging Specification PK-42878-492 (PDF)</a>   |
| <a href="#">Product Specification PS-42878-001 (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>         |

**Agency Certification**

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

**General**

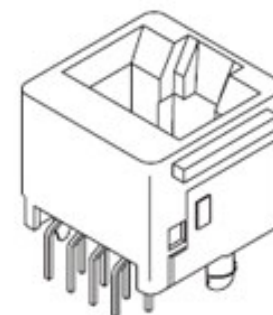
|                           |   |
|---------------------------|---|
| Product Family            | Modular Jacks/Plugs                     |
| Series                    | <a href="#">42878</a>                   |
| Component Type            | PCB Jack                                |
| Magnetic                  | No                                      |
| Overview                  | <a href="#">Modular Jacks and Plugs</a> |
| Performance Category      | 3                                       |
| Power over Ethernet (PoE) | N/A                                     |
| Product Name              | RJ45                                    |
| UPC                       | 800753828759                            |

**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              |
| Keying to Mating Part          | Yes                  |
| 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    | 1.57mm               |
| Packaging Type                 | Tray                 |
| Panel Mount                    | With Flange          |
| Pitch - Mating Interface       | 1.02mm               |
| Pitch - Termination Interface  | 1.27mm               |
| Ports                          | 1                    |
| Positions / Loaded Contacts    | 8/6                  |
| 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                  |

**Electrical**

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 1.5A |
| Grounding to PCB              | No   |



*Series image - Reference only*

**EU ELV**

**Not Relevant**

**EU RoHS**

**Not Reviewed**

**REACH SVHC**

Not Reviewed

**Halogen-Free**

**Status**

**Not Reviewed**

**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
Please visit the [Contact Us](#) section for any non-product compliance questions.

|                 |              |
|-----------------|--------------|
| China ROHS      | Not Reviewed |
| ELV             | Not Relevant |
| RoHS Phthalates | Not Reviewed |

**Search Parts in this Series**

[42878 Series](#)

**Mates With**

FCC 68 Plugs

|                    |               |
|--------------------|---------------|
| Grounding to Panel | None          |
| Shielded           | No            |
| Voltage - Maximum  | 150V AC (RMS) |

**Solder Process Data**

|  |      |
|--|------|
| Duration at Max. Process Temperature (seconds) | 005  |
| Lead-free Process Capability                   | WAVE |
| Max. Cycles at Max. Process Temperature        | 001  |
| Process Temperature max. C                     | 235  |

**Material Info****Reference - Drawing Numbers**

|                         |                                |
|-------------------------|--------------------------------|
| Packaging Specification | PK-42878-492                   |
| Product Specification   | PS-42878-001, TS-42878-001-001 |

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