



**Part Number :** [2209570008](#)  
**Product Description :** T1 Industrial Single-Pair Ethernet (SPE) PCB Jack, M12, Straight, 12.50mm, IP67  
**Series Number :** 220957  
**Status :** Active  
**Product Category :** I/O Connectors



## Documents & Resources

### Drawings

[2209570008\\_sd.pdf](#)

## Product Environment Compliance

### Compliance

|                    |                                                                                                              |
|--------------------|--------------------------------------------------------------------------------------------------------------|
| GADSL/IMDS         | Not Relevant                                                                                                 |
| China RoHS         | <br>per SJ/T 11365-2006 |
| EU ELV             | Not Relevant                                                                                                 |
| Low-Halogen Status | Not Reviewed per IEC 61249-2-21                                                                              |
| REACH SVHC         | Not Contained per D(2023)8585-DC<br>(23 Jan 2024)                                                            |
| EU RoHS            | Compliant per EU 2015/863                                                                                    |

### Compliance Statements

- EU RoHS
- REACH SVHC
- Low-Halogen

### Industry Documents

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

### Substances of Interest

- PFAS

Part Details

General

|                |                                                                                 |
|----------------|---------------------------------------------------------------------------------|
| Status         | Active                                                                          |
| Category       | I/O Connectors                                                                  |
| Series         | 220957                                                                          |
| Description    | T1 Industrial Single-Pair Ethernet (SPE) PCB Jack, M12, Straight, 12.50mm, IP67 |
| Application    | Wire-to-Board                                                                   |
| Component Type | PCB Jack                                                                        |
| Product Name   | Single-Pair Ethernet (SPE)                                                      |
| Type           | N/A                                                                             |
| UPC            | 196823193804                                                                    |

Electrical

|                               |                     |
|-------------------------------|---------------------|
| Current - Maximum per Contact | 4.0A                |
| Data Rate                     | Up to 10.0 Gbps     |
| Grounding to Panel            | None                |
| Shielded                      | Yes                 |
| Shield Type                   | Ground Plane Shield |
| Voltage - Maximum             | 60V AC              |

Physical

|                                |       |
|--------------------------------|-------|
| Circuits (Loaded)              | 2     |
| Circuits (maximum)             | 2     |
| Color - Resin                  | Black |
| Durability (mating cycles max) | 1000  |
| Gender                         | Jack  |
| Keying to Mating Part          | Yes   |
| Lock to Mating Part            | Yes   |
| Material - Metal               | Brass |
| Material - Plating Mating      | Gold  |

|                               |               |
|-------------------------------|---------------|
| Material - Resin              | Polyamide     |
| Net Weight                    | 2.260/g       |
| Number of Rows                | 1             |
| Orientation                   | Straight      |
| Packaging Type                | Tray          |
| Panel Mount                   | No            |
| PCB Locator                   | Yes           |
| PCB Retention                 | Yes           |
| PCB Thickness - Recommended   | 1.50mm        |
| PC Tail Length                | 2.30mm        |
| Pitch - Mating Interface      | 2.80mm        |
| Polarized to Mating Part      | Yes           |
| Polarized to PCB              | Yes           |
| Ports                         | 1             |
| Temperature Range - Operating | -25° to +80°C |
| Termination Interface Style   | Through Hole  |
| Waterproof / Dustproof        | Yes           |
| Waterproof / Dustproof Type   | IP67          |

---

## Mates With / Use With

### Mates with Part(s)

| Description                                                                                   | Part Number       |
|-----------------------------------------------------------------------------------------------|-------------------|
| T1 Industrial Single-Pair Ethernet (SPE) M12 Plug Cable Assembly, IP65/67, 0.20m Cable Length | <u>2209570113</u> |