



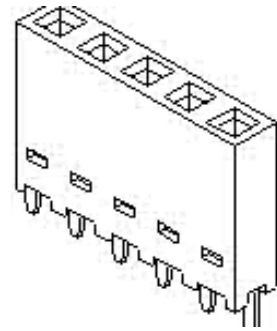
**Part Number :** [901471112](#)

**Product Description :** C-Grid III PC Board  
Connector, Single Row, Vertical, 12 Circuits, Tin (Sn)  
Plating

**Series Number :** 90147

**Status :** Active

**Product Category :** PCB Headers and Receptacles



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## Documents & Resources

### Drawings

[901471112\\_sd.pdf](#)

### 3D Models and Design Files

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

[Symbol and Footprint \(Multi-Format\)](#)

### Specifications

[713080001-AS-000.pdf](#)

[901190001-AS-000.pdf](#)

[PK-90147-001-002.pdf](#)

[PS-99020-0001-001.pdf](#)

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## Product Environment Compliance

### Compliance

|                    |                                                                                                              |
|--------------------|--------------------------------------------------------------------------------------------------------------|
| GADSL/IMDS         | Compliant with Exemption 44                                                                                  |
| China RoHS         | <br>per SJ/T 11365-2006 |
| EU ELV             | Not Relevant                                                                                                 |
| Low-Halogen Status | Not Low-Halogen per IEC<br>61249-2-21                                                                        |
| REACH SVHC         | Not Contained per D(2025)4165-DC<br>(25 June 2025)                                                           |
| 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

## EU RoHS Certificate of Compliance

## Additional Product Compliance Information

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## Part Details

### General

|                |                                                                                    |
|----------------|------------------------------------------------------------------------------------|
| Status         | Active                                                                             |
| Category       | PCB Headers and Receptacles                                                        |
| Series         | 90147                                                                              |
| Description    | C-Grid III PC Board Connector, Single Row, Vertical, 12 Circuits, Tin (Sn) Plating |
| Application    | Board-to-Board, Signal                                                             |
| Component Type | PCB Receptacle                                                                     |
| Product Name   | C-Grid III                                                                         |
| UPC            | 800753676015                                                                       |

### Agency

|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

### Electrical

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 3.0A |
| Grounding to PCB              | No   |
| Voltage - Maximum             | 350V |

## Physical

|                                |                 |
|--------------------------------|-----------------|
| Circuits (Loaded)              | 12              |
| Circuits (maximum)             | 12              |
| Color - Resin                  | Black           |
| First Mate / Last Break        | No              |
| Flammability                   | 94V-0           |
| Glow-Wire Capable              | No              |
| Guide to Mating Part           | No              |
| Keying to Mating Part          | None            |
| Lock to Mating Part            | None            |
| Material - Metal               | Phosphor Bronze |
| Material - Plating Mating      | Tin             |
| Material - Plating Termination | Tin             |
| Material - Resin               | Polyester       |
| Net Weight                     | 1.036/g         |
| Number of Rows                 | 1               |
| Orientation                    | Vertical        |
| Packaging Type                 | Tube            |
| PCB Locator                    | No              |
| PCB Retention                  | Yes             |
| PCB Thickness - Recommended    | 1.60mm          |
| PC Tail Length                 | 2.90mm          |
| Pitch - Mating Interface       | 2.54mm          |
| Pitch - Termination Interface  | 2.54mm          |
| Plating min - Mating           | 1.016µm         |
| Plating min - Termination      | 1.016µm         |
| Polarized to PCB               | No              |
| Temperature Range - Operating  | -55° to +105°C  |
| Termination Interface Style    | Through Hole    |

## Solder Process Data

|                              |      |
|------------------------------|------|
| Lead-Free Process Capability | WAVE |
|------------------------------|------|

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## Mates With / Use With

**Mates with Part(s)**

| Description                               | Part Number  |
|-------------------------------------------|--------------|
| C-Grid III Vertical Single Row Headers    | <u>90120</u> |
| C-Grid III Right-Angle Single Row Headers | <u>90121</u> |

**Use with Part(s)**

| Description                               | Part Number  |
|-------------------------------------------|--------------|
| C-Grid III Vertical Single Row Headers    | <u>90120</u> |
| C-Grid III Right-Angle Single Row Headers | <u>90121</u> |