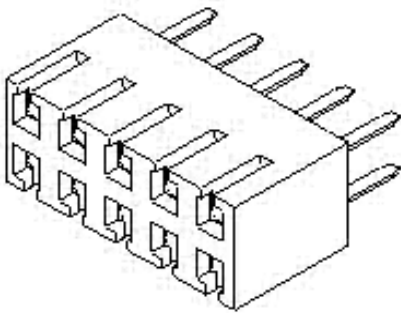




**Part Number :** [15445812](#)  
**Product Description :** 2.54mm Pitch C-Grid  
Receptacle, Through Hole, Dual Row, High Profile,  
Vertical, High-Temperature, 12 Circuits  
**Series Number :** 71850  
**Status :** Active  
**Product Category :** PCB Headers and Receptacles  
**Engineering Number :** 718500133



## Documents & Resources

### Drawings

[015445812 sd.pdf](#)

### 3D Models and Design Files

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

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

### Specifications

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

[PS-70181-001.pdf](#)

## Product Environment Compliance

### Compliance

|                    |                                                                                                           |
|--------------------|-----------------------------------------------------------------------------------------------------------|
| GADSL/IMDS         | Compliant with Exemption 44; 34; 33                                                                       |
| China RoHS         |  per SJ/T 11365-2006 |
| EU ELV             | Not Relevant                                                                                              |
| Low-Halogen Status | Low-Halogen per IEC 61249-2-21                                                                            |
| REACH SVHC         | Not Contained per D(2025)4165-DC (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         | 71850                                                                                                         |
| Description    | 2.54mm Pitch C-Grid Receptacle, Through Hole, Dual Row, High Profile, Vertical, High-Temperature, 12 Circuits |
| Application    | Board-to-Board, Signal                                                                                        |
| Component Type | PCB Receptacle                                                                                                |
| Product Name   | C-Grid                                                                                                        |
| UPC            | 800754226394                                                                                                  |

### Agency

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

### Electrical

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 2.5A |
| Voltage - Maximum             | 250V |

### Physical

|                                |                                |
|--------------------------------|--------------------------------|
| Circuits (Loaded)              | 12                             |
| Circuits (maximum)             | 12                             |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 50                             |
| First Mate / Last Break        | No                             |
| Flammability                   | 94V-0                          |
| Glow-Wire Capable              | No                             |
| Material - Metal               | Phosphor Bronze                |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 2.702/g                        |
| Number of Rows                 | 2                              |
| Orientation                    | Vertical                       |
| Packaging Type                 | Tray                           |
| PCB Locator                    | No                             |
| PCB Retention                  | None                           |
| PCB Thickness - Recommended    | 1.57mm                         |
| PC Tail Length                 | 3.05mm                         |
| Pitch - Mating Interface       | 2.54mm                         |
| Plating min - Mating           | 0.381µm                        |
| Plating min - Termination      | 1.905µm                        |
| Polarized to PCB               | No                             |
| Temperature Range - Operating  | -40° to +105°C                 |
| Termination Interface Style    | Through Hole                   |

### Solder Process Data

|                              |          |
|------------------------------|----------|
| Lead-Free Process Capability | SMC&WAVE |
| Max-Temp                     | 260      |

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### Mates With / Use With

#### Mates with Part(s)

| Description                    | Part Number  |
|--------------------------------|--------------|
| C-Grid Vertical, Dual Row, Low | <u>70246</u> |

| Profile Headers                                               |                              |
|---------------------------------------------------------------|------------------------------|
| C-Grid Vertical, Dual Row, Through Hole Headers without Peg   | <u><a href="#">70567</a></u> |
| C-Grid Vertical, Dual Row, Through Hole Headers with Peg      | <u><a href="#">70568</a></u> |
| C-Grid Right-Angle, Dual Row, Low Profile Headers             | <u><a href="#">70247</a></u> |
| C-Grid Right-Angle, Dual Row, Through Hole Headers            | <u><a href="#">74162</a></u> |
| C-Grid Vertical Dual Row Breakaway Headers                    | <u><a href="#">70280</a></u> |
| C-Grid Vertical Dual Row Breakaway Headers with Retention Pin | <u><a href="#">70287</a></u> |
| C-Grid Vertical, Dual Row, Surface Mount Breakaway Headers    | <u><a href="#">71308</a></u> |
| C-Grid Right-Angle Dual Row Breakaway Headers                 | <u><a href="#">70216</a></u> |
| C-Grid Right-Angle, Dual Row, Low Profile, Breakaway Headers  | <u><a href="#">71764</a></u> |