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**Part Number:** [0015446842](#)  
**Status:** **Active**  
**Overview:** [C-Grid Connector Products](#)  
**Description:** 2.54mm Pitch C-Grid Receptacle, Through Hole, Dual Row, High Profile, Vertical, High-Temperature, 42 Circuits

**Documents:**

|                                                          |                                                                  |
|----------------------------------------------------------|------------------------------------------------------------------|
| <a href="#">3D Model</a>                                 | <a href="#">Application Specification 713080001-AS-000 (PDF)</a> |
| <a href="#">3D Model (PDF)</a>                           | <a href="#">Packaging Specification PK-70873-0660-001 (PDF)</a>  |
| <a href="#">Drawing (PDF)</a>                            | <a href="#">RoHS Certificate of Compliance (PDF)</a>             |
| <a href="#">Product Specification PS-70181-001 (PDF)</a> |                                                                  |

**Agency Certification**

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

**General**

|                |                                           |
|----------------|-------------------------------------------|
| Product Family | PCB Receptacles                           |
| Series         | <a href="#">71850</a>                     |
| Application    | Board-to-Board, Signal                    |
| Overview       | <a href="#">C-Grid Connector Products</a> |
| Product Name   | C-Grid                                    |
| UPC            | 800754607759                              |

**Physical**

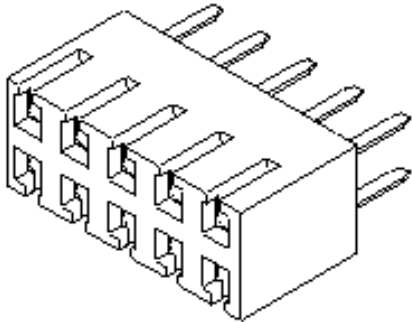
|                                |                                |
|--------------------------------|--------------------------------|
| Circuits (Loaded)              | 42                             |
| Circuits (maximum)             | 42                             |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 25                             |
| Flammability                   | 94V-0                          |
| Glow-Wire Capable              | No                             |
| Material - Metal               | Phosphor Bronze                |
| Material - Plating Mating      | Tin                            |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 3.482/g                        |
| Number of Rows                 | 2                              |
| Orientation                    | Vertical                       |
| PC Tail Length                 | 3.05mm                         |
| PCB Locator                    | No                             |
| PCB Retention                  | None                           |
| PCB Thickness - Recommended    | 1.57mm                         |
| Packaging Type                 | Tray                           |
| Pitch - Mating Interface       | 2.54mm                         |
| Plating min - Mating           | 3.810µm                        |
| Plating min - Termination      | 3.810µm                        |
| Polarized to PCB               | No                             |
| Temperature Range - Operating  | -40° to +105°C                 |
| Termination Interface: Style   | Through Hole                   |

**Electrical**

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

**Solder Process Data**

|                                                |      |
|------------------------------------------------|------|
| Duration at Max. Process Temperature (seconds) | 040  |
| Lead-freeProcess Capability                    | WAVE |
| Max. Cycles at Max. Process Temperature        | 003  |



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
D(2021)4569-DC (8  
July 2021)

**Halogen-Free**

**Status**

**Low-Halogen**

For more information, please visit [Contact US](#)

China ROHS

ELV

RoHS Phthalates

**China RoHS**

Green Image

Not Relevant

Not Contained

**Search Parts in this Series**

[71850 Series](#)

**Mates With**

C-Grid Breakaway Vertical Header [70287](#)  
, [71308](#) , [70280](#) <br> C-Grid Breakaway  
Right-Angle Header [71764](#) , [70216](#) <br> C-  
Grid Vertical Headers [70246](#) , [70567](#) , [70568](#)  
<br> C-Grid Right-Angle Headers [70247](#) ,  
[70229](#) , [74162](#)

|                                    |                    |
|------------------------------------|--------------------|
| Process Temperature max. C         | 245                |
| <b>Material Info</b>               |                    |
| Engineering Number                 | 71850-0084         |
| <b>Reference - Drawing Numbers</b> |                    |
| Application Specification          | 713080001-AS-000   |
| Packaging Specification            | PK-70873-0660-001  |
| Product Specification              | PS-70181-001       |
| Sales Drawing                      | SDA-71850-0XXX-001 |

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