

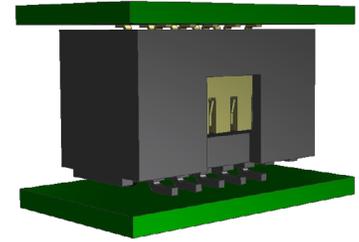
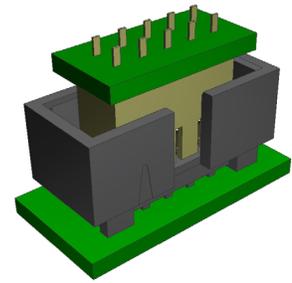
# C-Grid Connectors



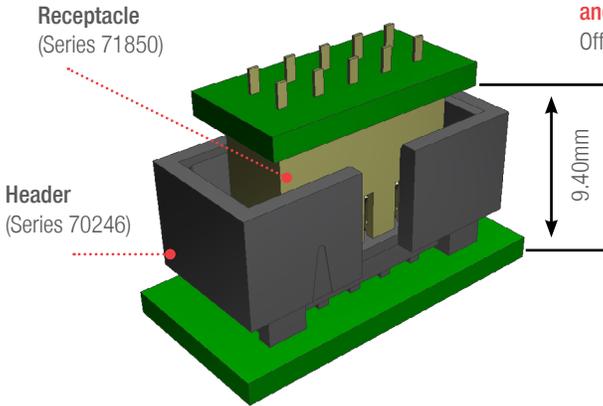
C-Grid is a dual-row board-to-board connector system that features a low-profile design and a wide range of circuit sizes in vertical and right-angle configurations, making these connectors suitable for diverse low power and signal applications

## Features and Advantages

Low profile C-Grid Connectors in 2 to 80 circuit sizes, single- and dual-rows, vertical and horizontal configurations and various plating options Offer design flexibility

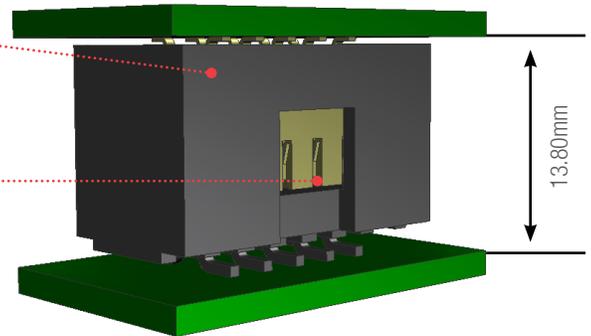


C-Grid Connectors



Header (Series 71349)

Receptacle (Series 71395)



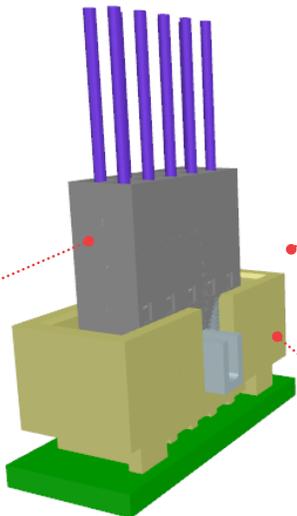
### Reflow capable headers

Delivers high-temperature assembly processing

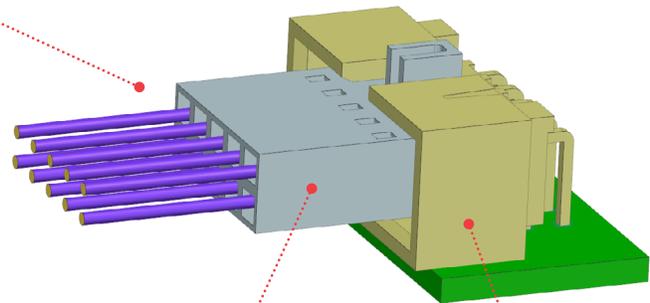
### C-grid headers are compatible with SL housings

C-Grid headers mate with SL housings to offer secure wire-to-board connection

SL Crimp Housing (Series 70450)



C-Grid Right-Angle Header (Series 70247)



SL Crimp Housing (Series 70450)

C-Grid Vertical Header (Series 70246)

# C-Grid Connectors

# molex

## Markets and Applications

### Automotive

- Audio, navigation, infotainment
- Car LCD panel

### Consumer

- Microwave ovens
- Washers and dryers
- White goods

### Data/Communications

- Analytical chemistry:  
GC, CE, Capillary LC, Flow cytometry

### Lighting

- Architectural lighting
- Industrial lighting
- Office lighting

### Medical

- ECG or EEG machines
- Respirators

### Networking

- 1U rack boxes
- Blade servers
- Rack-mount servers
- Routers and switches
- Storage racks



White Goods



Oven



Office Lighting



Car Infotainment



Servers

## Specifications

### REFERENCE INFORMATION

Reference Information  
Packaging: Bag, Tray, Reel  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With:  
Series 70246/70247/70567/75101/70568/  
87834/74164 with series 71850  
Series 71349/74162/74164 with series 71395  
Designed In: Millimeters  
RoHS: Yes

### ELECTRICAL

Voltage (max.): 250V  
Current (max.): 3.0A  
Contact resistance: 10 milliohms  
Dielectric Withstanding Voltage: 600V  
Insulation Resistance: 1000 Megohms

### MECHANICAL

Pitch: 2.54mm  
Pin retention force (min.): 1.81kgf (before soldering)  
Durability:  
-25 cycles (Tin plating)  
-50 cycles (Gold plating)

### PHYSICAL

Housing: LCP  
Contact: High Copper Alloy  
Plating: Gold (Au) or Tin (Sn) over Nickel  
Operating Temperature:  
-40 °C to +105 °C (Tin plating)  
-55 °C to +120 °C (Gold plating)

[www.molex.com/link/cgrid.html](http://www.molex.com/link/cgrid.html)

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