

# Quad-Row Board-to-Board Connectors >

Quad-Row Board-to-Board Connectors feature a staggered circuit layout for a highly compact package in a wide range of space-constrained applications, allowing manufacturers to maximize productivity while minimizing the physical footprint. These connectors offer robust power for enhanced overall efficiency and meet market demands without compromising functionality.

## ADVANTAGES AND FEATURES

### Offers excellent space savings

The low-profile design has a 0.175mm-pitch.

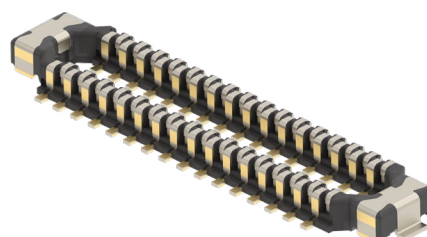
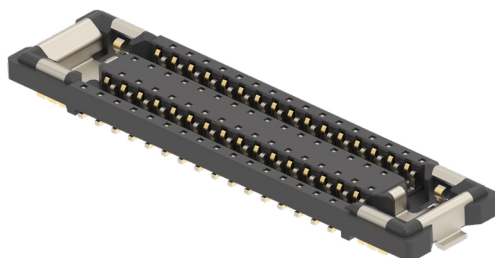
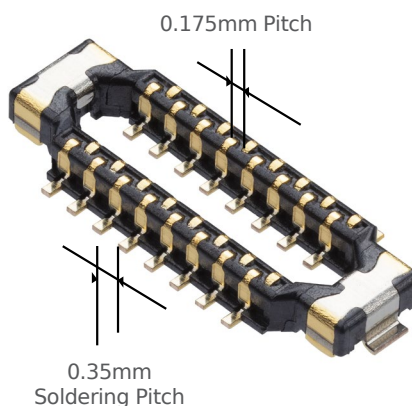
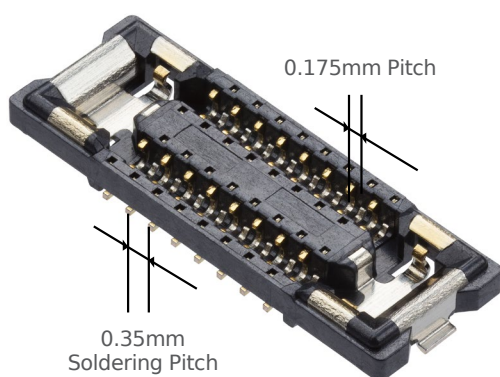
### Provides robustness and protection in the interior cover

An armored and insert-molded nail helps prevent damage to the connectors.

### Simplifies the system design and increases functionality for enhanced performance and capabilities

More circuits are incorporated into a single connector, reducing the number of connectors needed.

Current	3.0/4.0A
Voltage	50V
Circuits	12 to 80
Pitch	0.175mm
Height	0.50/0.60/0.80mm
Operating Temperature	-40 to +85°C



# Quad-Row Board-to-Board Connectors >

## MARKETS AND APPLICATIONS

### Home Appliances

IoT and smart home devices

### MedTech

Patient-monitoring systems

Therapeutic and surgical equipment

### Defense

Unmanned vehicles

Aircraft avionics

### Mobile Devices

Smart phones

Tablets

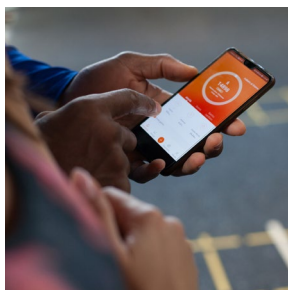
### Wearables

Smart watches

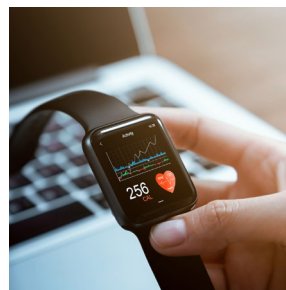
Smart glasses

Earbuds

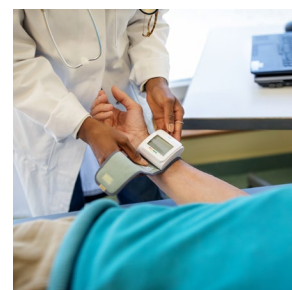
AR/VR devices



Smart Phones



Smart Watches



Patient-Monitoring Systems

## SPECIFICATIONS

### Reference Information

Packaging: Embossed tape with cover

Designed In: Millimeters

RoHS: Yes

Halogen Free: Yes

### Electrical

Voltage (max.): 50V

Current (max.): 0.3A signal; 3.0/4.0A nail

Contact Resistance:

Signal Contact: 35 milliohms

Nail Contact: 20 milliohms

Dielectric Withstanding Voltage: 250V

Insulation Resistance: 100 megohms

### Mechanical

Pitch: 0.175mm

Mated Height: 0.50/0.60/0.80mm

Width: 2.00mm

Length (Receptacle):

Pitch (N/2-1)+3.10mm

Structure Type: vertical type

Circuit Sizes: 12 to 80 circuits

Durability (max.): 30 cycles

### Physical

Housing: LCP UL94 V-0

Contact: Copper alloy

Plating: Contact Area—gold

Solder Tail Area—gold

Underplating—nickel

Operating Temperatures: -40 to +85°C

## QUAD-ROW CONNECTOR LINEUPS

○ - Coming Soon  
● - Sample Available

Height (mm)	Current Size																	
	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
0.50	○		○															
0.60			●	○		●	●		●					●				○
0.80											○							