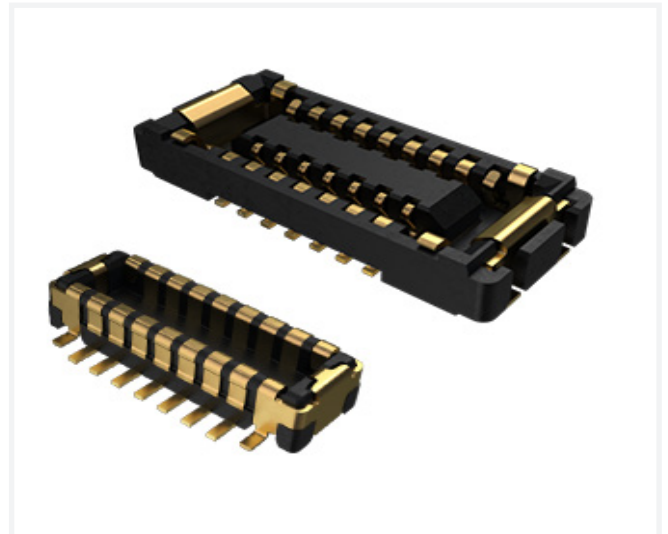


## 0.35mm Pitch Micro Board-to-Board – BW91/BW92 Series

### HIGH DENSITY MICRO BOARD-TO-BOARD

Amphenol ICC's BW91/BW92 series are 0.35mm pitch micro board-to-board connectors designed for high density applications. They support extreme low profile 1.00mm stack height and come in 14 positions. These miniaturized connectors feature SMT terminations and are ideal for consumer applications such as mobile phone, smart watch, smart glasses and VR/AR devices.

- Low profile connector design
- Mismatch-proof during mating
- Maximum current rating up to 3A



#### TARGET MARKETS



#### FEATURES

- Low profile connector design
- Chamfer design
- Maximum current rating up to 3A
- Double contact points
- High temperature thermoplastic housing
- Lead and halogen-free

#### BENEFITS

- Suitable for applications that have space constraint
- Prevents mismatching during mating
- Meets high current application requirements
- Ensures enhanced contact stability
- Wide operating temperature range of  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- Meets environmental, health and safety requirements

## TECHNICAL INFORMATION

### MATERIAL

- Housing: LCP, black color (UL94V-0)
- Contact terminal: Copper alloy, Au flash over Ni under plating (Ni barrier, lubricant)
- Anchor-plate: Copper alloy, Au flash over Ni under plating

### MECHANICAL PERFORMANCE

- Insertion Force: 22.3N max.
- Withdrawal Force: 3.49N min.
- Terminal Retention Force: 0.15N min.
- Durability: 30 mating cycles

### ELECTRICAL PERFORMANCE

- Voltage Rating: 50V AC/DC
- Current Rating
  - Signal Pin: 0.3A
  - Power Pin: 3A
- Contact Resistance
  - Signal Pin: 80mΩ max. (Initial)
  - Power Pin: 30mΩ max. (Initial)
- Insulation Resistance
  - Initial: 100MΩ min.
  - After: 50MΩ min.
- Dielectric Withstanding Voltage: No short or breakdown after AC 250V, 2mA, 1min.

### PACKAGING

- Tape & Reel

### APPROVALS AND CERTIFICATIONS

- UL 94V-0
- RoHS compliant

### SPECIFICATION

- Aurora Product Specification: IS.EQC.157

### ENVIRONMENTAL

- Operating Temperature Range: -40°C to +85°C

### TARGET MARKETS/APPLICATIONS



Mobile phone  
Smart watch  
Smart glasses  
VR/AR devices

## PART NUMBERS

Description	Part Numbers
0.35mm BTB Vertical Receptacle, 1.00mm stacking height, 14 positions	BW92-1B7C1-11214-E200
0.35mm BTB Vertical Header, 1.00mm stacking height, 14 positions	BW91-1B7C1-11214-E200