

## 0.80mm Pitch Board-to-Board – B401/B402 Series

### HIGH DENSITY VERTICAL BOARD-TO-BOARD CONNECTORS

Amphenol ICC's B401/B402 series are 0.80mm pitch board-to-board connectors designed for high density applications. They support 10mm stack height and 100 positions. These connectors feature surface mount terminations and are available in a comprehensive range to satisfy different customer requirements.

- 100 positions
- 10mm stack height



#### TARGET MARKETS



#### FEATURES

- High-temperature thermoplastic housing
- Available in 100 positions
- Lead and halogen-free

#### BENEFITS

- Wide operating temperature range of  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$
- Comprehensive range to satisfy different customer requirements
- Meets environmental, health and safety requirements

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### TECHNICAL INFORMATION

#### MATERIAL

- Housing: LCP, natural color (UL94V-0)
- Cover: SUS-304, T=0.20mm
- Contact: Phosphor bronze, T=0.20mm

#### MECHANICAL PERFORMANCE

- Insertion Force: 150gf/pin max.
- Withdrawal Force: 25gf/pin min.
- Terminal Retention Force: 200gf/terminal min.
- Durability: 50 mating cycles

#### ELECTRICAL PERFORMANCE

- Voltage Rating: 50V AC/DC
- Current Rating: 0.5A
- Contact Resistance: 30MΩ max.
- Insulation Resistance: x100MΩ min.
- Dielectric Withstanding Voltage: No short or breakdown after 500V AC, 2mA, 1min.

#### PACKAGING

- Tape & Reel

#### APPROVALS AND CERTIFICATIONS

- UL file number E41797
- RoHS compliant

#### SPECIFICATION

- Aorora Product Specification: IS.EQC.047

#### ENVIRONMENTAL

- Operating Temperature Range: -40°C to +105°C

#### TARGET MARKETS/APPLICATIONS



Car Multimedia  
Car Navigation  
Dashboard  
PND



Base Station  
Power  
Switches



Notebook  
Tablets  
Wearables  
Gaming  
DSC  
LCD&PDP TV



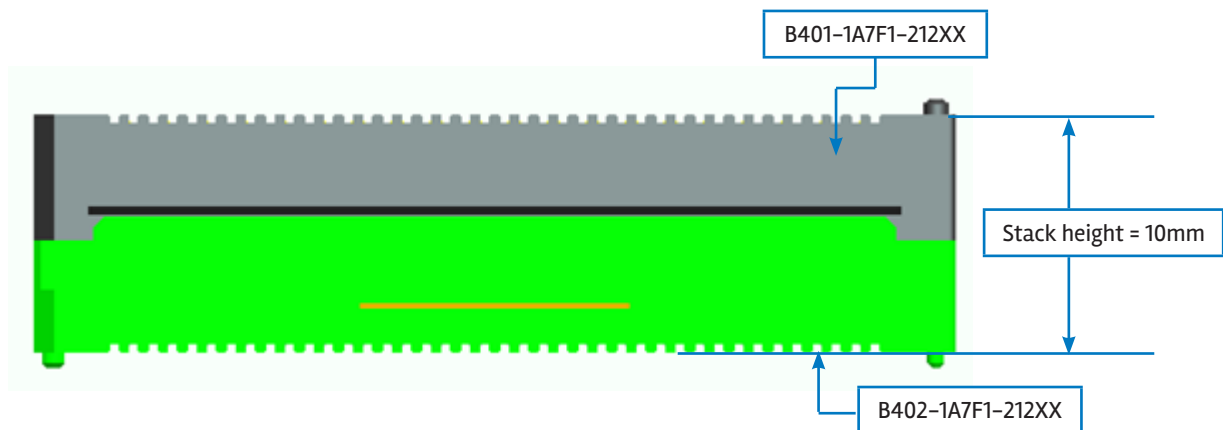
Router  
Server  
ODD  
HDD



Sensing element  
Monitoring camera  
Human Machine Interface  
Industrial PC  
Robotics



Ultrasonic  
Patient Monitor  
MRI  
CT  
Infusion Pump



### PART NUMBERS

Description	Part Numbers
0.80mm BTB Vertical Receptacle, 7.75mm height, 100 positions	B401-1A7F1-21250
0.80mm BTB Vertical Header, 5.60mm height, 100 positions	B402-1A7F1-21250

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