

# 0.50mm Power Pin Floating Board-to-Board Connectors – B321/B322 Series

## HIGH SPEED HIGH CURRENT POWER PIN BOARD-TO-BOARD CONNECTORS

Power pin 0.50mm pitch floating board-to-board connector system is designed for applications that need large current and space saving.

The independent power pin supports 5A current per pin (power pin\*4 ) and provides a high speed transmission performance up to 10Gb/s.

- High Speed transmission 10Gb/s
- Current rating up to 5A per power pin(5A/pin\* 4)
- Wide operating temperature from -40°C ~125°C (Including T-Rise)
- Large floating range X,Y±0.60mm, Z ±0.50mm
- Anti-fool mating design
- Direction guide functions for easy mating



### TARGET MARKETS



### FEATURES

- 0.50mm pitch floating board-to-board solution
- Low profile design
- UL94V-0 flammability rated LCP material
- RoHS compliant and lead-free
- Halogen-free resin material

### BENEFITS

- Saves space with reduced PCB footprint
- Saves PCB space
- High flammability rating
- Meets environment, health and safety requirements
- Meets environmental requirements

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### TECHNICAL INFORMATION

#### MATERIAL

- Housing: LCP, Black, UL94V-0
- Signal Terminal: Copper alloy with Ni under plate and gold plating
- Power Terminal: Copper alloy with Ni under plate and gold plating
- Ground Bar: SUS 304

#### MECHANICAL PERFORMANCE

- Durability: 100 cycles
- Terminal Retention Force: 2.5N/terminal min. (EIA 364-05B)
- Insertion Force: 1 N/PIN max. (EIA 364-09)
- Extraction Force: 0.03N/PIN min. (EIA 364-09)

#### ELECTRICAL PERFORMANCE

- Insulation Resistance: 500M $\Omega$  min.
- Voltage Rating: Signal pin 50V AC/DC; Power pin 200V AC/DC
- Contact Resistance: 60m $\Omega$  max. (initial)
- Current Rating: Signal pin 0.5A/pin; power pin, 5A/pin\*4

#### PACKAGING

- Tape & Reel

#### APPROVALS AND CERTIFICATIONS

- UL 94V-0
- RoHS compliant
- REACH

#### SPECIFICATION

- Aorora Product Specification: IS.EQC.172

#### ENVIRONMENTAL

- Operating Temperature Range: -40°C to +125°C

#### TARGET MARKETS/APPLICATIONS



Infotainment  
Powertrain



LED Display  
Mobile POS Terminals

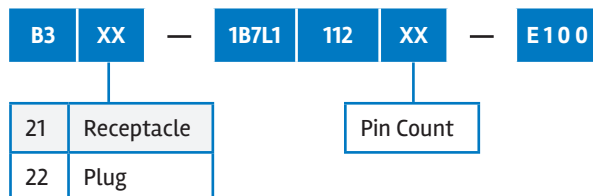


Communication Base Station  
Service Robot



MRI/CT

### PART NUMBER SELECTOR



AOR0RB321B20321EA4