

# 0.50mm Power Pin Floating Board-to-Board Connectors - B329/B322/B324/B326/B328 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 -55°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



# **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 (for B329 only)

## **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.175
- IS.EQC.180

#### **ENVIRONMENTAL**

■ Operating Temperature Range: -55°C to +125°C

## **TARGET MARKETS/APPLICATIONS**



Infotainment Powertrain



LED Display Mobile POS Terminals

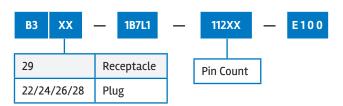


Communication Base Station Service Robot



MRI/CT

# PART NUMBER SELECTOR



# **PART NUMBERS**

| Description | Description            | Plug PN                | Remark          | Status   |
|-------------|------------------------|------------------------|-----------------|----------|
| 8.0 mm      | B329-1B7L1-1126**-E100 | B324-1B7L1-1126**-E100 | With high speed | ACTIVE   |
| 10.0 mm     | B329-1B7L1-1126**-E100 | B322-1B7L1-1126**-E100 | With high speed | ACTIVE   |
| 15.0 mm     | B329-1B7L1-1126**-E100 | B326-1B7L1-1126**-E100 | With high speed | Planning |
| 20.0 mm     | B329-1B7L1-1126**-E100 | B328-1B7L1-1126**-E100 | With high speed | Planning |

Note: This table may update not on time, please contact our local sales to confirm the latest information.