

0.50mm Power Pin Floating Board-to-Board Connectors – B329/B322/B324/B326/B04R/B04P/B06P

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 of up to 10Gb/s or 16Gb/s.

- High Speed transmission: 10Gb/s(SH≤15mm), 16Gb/s(SH>15mm)
- 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, SH≤15mm: X,Y±0.60mm, Z±0.50mm, SH>15mm: X,Y±0.80mm, Z±0.60mm
- Anti-fool mating design
- Direction guide functions for easy mating
- USCAR-2 T3V2 qualified



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 (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: 500MΩ min.
- Voltage Rating: Signal pin 50V AC/DC; Power pin 200V AC/DC
- Contact Resistance: 60mΩ 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

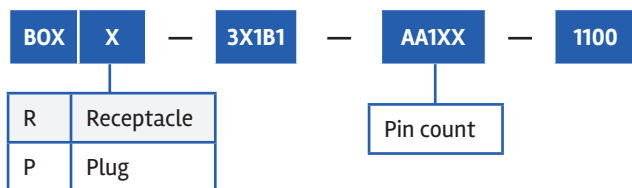
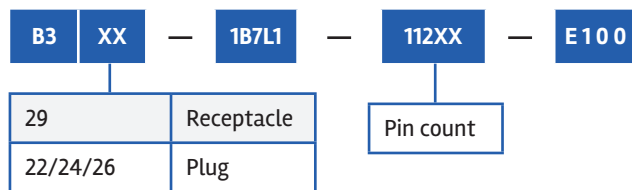


Communication Base Station
Service Robot



MRI/CT

PART NUMBER SELECTOR



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PART NUMBERS

Stack height	Receptacle PN	Plug PN	Remark	Status
8.0mm	B329-1B7L1-112**-E100	B324-1B7L1-112**-E100	With high speed, SMT	ACTIVE
10.mm	B329-1B7L1-112**-E100	B322-1B7L1-112**-E100	With high speed, SMT	ACTIVE
15.0mm	B329-1B7L1-112**-E100	B326-1B7L1-112**-E100	With high speed, SMT	Planning
20.0mm	B04R-3J1B1-AA1**-1110	B06P-3G1B1-AA1**-1110	With high speed, SMT+PIP	Planning
30.0mm	B04R-3J1B1-AA1**-1110	B04P-3J1B1-AA1**-1110	With high speed, SMT+PIP	Preparing

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

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