Robust SlimStack 0.35mm-Pitch Board-to-Board Connectors deliver upscaled performance with up to 5.0A power and proprietary full-armor housing protection, together with mating guidance and electrical contact assurance, for superior reliability in challenging applications.

Features and Advantages

- **Dual-Contact Design**
  Provides secure reliability

- **Wide Alignment Area**
  Provides easy and secure mating

- **Metal Power Armor Nail Feature**
  Provides housing protection with up to 3.0A current

- **Double Contact Armor Nail**
  Provides reliable contact interface with flexible arm springs and two-point contact

- **Full armor design that wraps connector from inside and outside**
  Prevents damage during assembly

- **Mold (for max. protection)**

- **3-sided SMT**
  Offers improved solder strength

- **Over-molded contact terminals**
  Simplifies assembly and offers improved part structure and reliability

- **Power F/Nail structure enables power delivery up to 5.0A**
  Meets customers’ requirement for high power in compact package
# SlimStack 0.35mm Pitch Board-to-Board Connectors

## Markets and Applications

**Consumer**
- Smartphones
- Tablet PCs
- Wearable devices
- Portable audio
- Portable navigation equipment
- IoT and smart home devices
- AR/VR devices
- 5G and RF devices

**Medical Devices**
- Patient monitoring
  - Therapeutic and surgical

**Defense**
- Unmanned vehicles
- Aircraft avionics

## Specifications

**REFERENCE INFORMATION**
- Packaging: Embossed Tape with Cover
- Designed In: Millimeters
- RoHS: Yes
- Halogen Free: Yes

**ELECTRICAL**
- Voltage (max.): 50V
- Current (max.): 0.3A Signal / 3.0A Nail (SSB Series)
  - 0.3A Signal / 5.0A Nail (Full Armor)
- Contact Resistance (max.): Signal: 60 to 80 Milliohms
  - Nail: 30 Milliohms
- Dielectric Withstanding Voltage: 250V AC (rms)
- Insulation Resistance: 100 Megaohms min.

**MECHANICAL**
- Pitch: 0.35mm
- Mated Height:
  - 0.60mm (SSB6)
  - 0.60 to 1.00mm (SSB RP)
  - 0.80mm (Full armor)
- Width: 2.00 to 2.20mm
- Length (Receptacle):
  - Pitch*(N/2-1)+2.50mm (SSB6)
  - Pitch*(N/2-1)+2.80mm (SSB RP)
  - Pitch*(N/2-1)+3.40mm (Full armor)
- Structure Type: Vertical type
- Circuit Size:
  - 10 to 70 Circuit (SSB6)
  - 6 to 60 Circuit (SSB RP)
  - 54 Circuit (Full armor)
- Durability (max.): 30 cycles

**PHYSICAL**
- Housing: LCP Black, UL 94V-0
- Contact: Copper Alloy
- Plating: Contact Area – Gold
  - Solder Tail Area – Gold
  - Underplating – Nickel
- Operating Temperature: -40 to +85°C

## Ordering Information

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**: circuit size

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