

0.35mm Pitch Micro Board-to-Board – HRS-101 Series

HIGH DENSITY MICRO BOARD-TO-BOARD

HorusTech's HRS-101 series are 0.35mm pitch micro board-to-board connectors designed for high density applications. They support extreme low profile 1.00mm stack height. These miniaturized connectors feature SMT terminations and are ideal for consumer applications such as mobile phone, smart watch, smart glasses and VR/AR devices.

- Low profile connector design
- Mismatch-proof during mating
- Maximum current rating up to 3A



TARGET MARKETS



FEATURES

- Low profile connector design
- Chamfer design
- Maximum current rating up to 3A
- Double contact points
- High temperature thermoplastic housing
- Lead and halogen-free

BENEFITS

- Suitable for applications that have space constraint
- Prevents mismatching during mating
- Meets high current application requirements
- Ensures enhanced contact stability
- Wide operating temperature range of -40°C to $+85^{\circ}\text{C}$
- Meets environmental, health and safety requirements

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TECHNICAL INFORMATION

MATERIAL

- Housing: LCP, black color (UL94V-0)
- Contact terminal: Copper alloy, Au flash over Ni under plating (Ni barrier, lubricant)
- Anchor-plate: Copper alloy, Au flash over Ni under plating

MECHANICAL PERFORMANCE

- Durability: 30 mating cycles

| No. of contacts | Mating force (max.) | | Un-mating force (min.) | |
|-----------------|---------------------|------------------|------------------------|------------------|
| | 1 st | 30 th | 1 st | 30 th |
| 6 | 15.0 | | 1.90 | |
| 10 | 17.5 | | 2.50 | |
| 12 | 20.0 | | 3.00 | |
| 14 | 22.3 | | 3.49 | |
| 20 | 30.0 | | 4.40 | |

ELECTRICAL PERFORMANCE

- Voltage Rating: 50V AC/DC
- Current Rating
 - Signal Pin: 0.3A
 - Power Pin: 3A
- Contact Resistance
 - Signal Pin: 80mΩ max. (Initial)
 - Power Pin: 30mΩ max. (Initial)
- Insulation Resistance
 - Initial: 100MΩ min.
 - After: 50MΩ min.
- Dielectric Withstanding Voltage: No short or breakdown after AC 250V, 2mA, 1min.

PACKAGING

- Tape & Reel

APPROVALS AND CERTIFICATIONS

- UL 94V-0
- RoHS compliant

SPECIFICATION

- Product Specification: IS.EQC.157

ENVIRONMENTAL

- Operating Temperature Range: -40°C to +85°C

TARGET MARKETS/APPLICATIONS



Mobile phone
Smart watch
Smart glasses
VR/AR devices

PART NUMBER SELECTOR

