Minitek® MicroSpeed 1.00mm Board-to-Board Connector

SHIELDED HIGH-SPEED BOARD-TO-BOARD CONNECTOR

Basics' Minitek® MicroSpeed connector family with 1.00mm pitch supports high-speed data applications with up to 25Gb/s. These connectors feature a shielded design that provides superior EMC performance and significantly improved electromagnetic compatibility. The poka-yoke polarization prevents visual mismating, which makes it ideal for use in industrial environments

- Supports high-speed performance up to 25Gb/s
- EMC shielding reduces coupling inductance, providing excellent electromagnetic compatibility
- Dual-beam contact with a robust design for customer application
- Blind-mating feature
- Supports multiple PCB orientation applications



FEATURES	BENEFITS

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 High speed performance up to 25Gb/s 	 Can be used in high-end computing and signal transfer applications in data communication telecommunication, computing, medical technologyand industrial automation segments
■ EMI shielding	 Significantly reduced coupling inductance leading to excellent electromagnetic compatibility
 Dual-beam receptacle contacts 	 Provides high electrical reliability and withstands high lvel of vibration
 Blind-mating feature 	 Suit for those tasks where visual and tactile tools are compromised during mating process
 Vertical, right angle and combo solutions 	- Supports various applications
 Licensed second source to ERNI with an exact mating cross-reference 	 Allows direct selection and usage of mating counterpart for ERNI's product
• Lead-free and RoHS compliant	Meets health, safety and environment requirements

TECHNICAL INFORMATION

MATERIAL

- Housing: High temperature thermoplastic LCP, black (UL94V-0)
- Terminal & Shield Base Material: Copper alloy
- Plating Specification:
 - Mating Area: Gold and PdNi over nickel plating with lubrication
 - Termination Area: Tin plating over nickel

ELECTRICAL PERFORMANCE

- Current Rating: 1A per contact, 10A per shield
- Voltage Rating: 500V(AC RMS, 60Hz) for 60 seconds.
- LLCR: $50m\Omega$ max.
- Insulation Resistance: $1x1010\Omega$ min.
- Signal Integrity:
 - Data Rate: up to 25Gbps
- Multiline Crosstalk: < 0.5% at 50ps (10-90%)
- Differential Impedance: 100Ω
- Single Ended Impedance: 50Ω

MECHANICAL PERFORMANCE

- Durability: 500 cycles
- Mating Force: 1N max. per contact
- Un-mating Force: 1N max. per contact
- Gauge Retention Force: 0.1N min. per contact
- Coplanarity: 0.1mm max. at termination area

ENVIRONMENTAL

- Operating Temperature: -55°C ~ 125°C.
- Industrial Atmosphere Durability: 10 days
- Vibration Sinusoidal: 20g
- Shock Half Sine: 50g

APPROVALS AND CERTIFICATIONS

- UL E66906

SPECIFICATIONS

■ GS-12-1446

PACKAGING

■ Tape & reel

TARGET MARKETS/APPLICATIONS



Factory automation PLC



Server/Storage



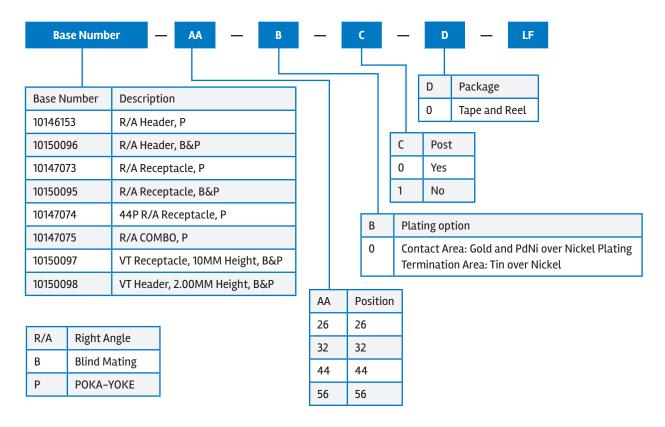
MRI Machine Computed Tomography



MCU ADAS

▶ Minitek® MicroSpeed 1.00mm Board-to-Board Connector

PART NUMBER SELECTOR



PART NUMBERS

Description	Part Numbers
Minitek® MicroSpeed 26P R/A Header, P	10146153-2600RLF
Minitek® MicroSpeed 32P R/A Header, B&P	10150096-3200RLF
Minitek® MicroSpeed 26P R/A Receptacle, P	10147073-2600RLF
Minitek® MicroSpeed 32P R/A Receptacle, B&P	10150095-3200RLF
Minitek® MicroSpeed 44P R/A Receptacle, P	10147074-4400RLF
Minitek® MicroSpeed 26P R/A COMBO, P	10147075-2600RLF
Minitek® MicroSpeed 32P VT Receptacle,10MM HEIGHT, B&P	10150097-3200RLF
Minitek® MicroSpeed 32P VT Header, 2MM HEIGHT, B&P	10150098-3200RLF

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

FCI / Amphenol:

<u>10150097-3200RLF</u> <u>10150095-3200RLF</u> <u>10150096-3200RLF</u> <u>10150098-3200RLF</u> <u>10146153-2600RLF</u> <u>10147073-2600RLF</u> <u>10147075-2600RLF</u>