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



	IDEC
FEATL	

High speed performance up to 25Gb/s

- EMI shielding
- Dual-beam receptacle contacts
- Blind-mating feature
- · Vertical, right angle and combo solutions
- Licensed second source to ERNI with an exact mating cross-reference
- Lead-free and RoHS compliant

BENEFITS

- Can be used in high-end computing and signal transfer applications in data communication telecommunication, computing, medical technologyand industrial automation segments
- Significantly reduced coupling inductance leading to excellent electromagnetic compatibility
- Provides high electrical reliability and withstands high lvel of vibration
- Suit for those tasks where visual and tactile tools are compromised during mating process
- Supports various applications
- Allows direct selection and usage of mating counterpart for ERNI's product
- Meets health, safety and environment requirements

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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



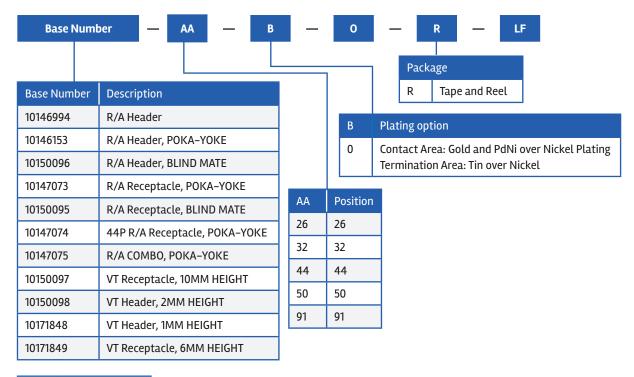
MCU ADAS

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 26P VT Receptacle, 4MM HEIGHT, P	10146152-2600RLF
Minitek® MicroSpeed 32P VT Receptacle, 4MM HEIGHT, B&P	10146152-3220RLF
Minitek® MicroSpeed 50P VT Receptacle, 4MM HEIGHT, P	10146152-5000RLF
Minitek® MicroSpeed 50P VT Receptacle, 4MM HEIGHT, B&P	10146152-5010RLF
Minitek® MicroSpeed 32P VT Receptacle, 10MM HEIGHT, B&P	10150097-3200RLF
Minitek® MicroSpeed 32P VT Header, 2MM HEIGHT, B&P	10150098-3200RLF
Minitek® MicroSpeed 91P VT Header, 1MM HEIGHT, 7 Row, B&P	10171848-9100RLF
Minitek® MicroSpeed 91P VT Receptacle, 6MM HEIGHT, 7 Row, B&P	10171849-9100RLF

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PART NUMBER SELECTOR



R/A	Right Angle
В	Blind Mating
Р	POKA-YOKE

