



News Release

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FX10-3 Series 3-piece board-to-board connector features floating structure that absorbs alignment errors up to $\pm 0.3\text{mm}$ in X and Y axis directions ...

FLOATING 3-PIECE MEZZANINE CONNECTOR FROM HIROSE SUPPORTS HIGH-SPEED TRANSMISSION UP TO 15 GBPS

CHICAGO, IL— August 15th, 2017 — Hirose, a leader in the development of innovative connector solutions, has launched an SMT board-to-board connector that utilizes a unique 3-piece floating contact system to simplify assembly and support high-speed transmission capability up to 15 Gbps. Designed for high-speed transmission applications that require multiple stacking connectors on the same PCB, the 0.5mm pitch FX10-3 Series connector is the latest addition to Hirose’s popular FunctionMax family.

The FX10-3 Series mezzanine connector’s floating contact mechanism can compensate for alignment errors up to $\pm 0.3\text{mm}$ in both the X- and Y-axis direction. This floating feature allows for multiple connectors to be used in a mezzanine design reducing the stress on solder joints caused by misaligned connectors.

The 3-piece connector utilizes a new design that connects ground pins inside the connector with ground bars. This ground connection design lowers crosstalk, thus improving the insertion-loss to crosstalk ratio and increasing transmission speed capability.

“Featuring a new, patent pending 3-piece floating concept that provides smooth contact movement, the FX10-3 Series mezzanine connector saves assembly time and costs when mating multiple connectors on

the same printed circuit board. The 3-piece design also offers excellent signal integrity characteristics to deliver 15 Gbps transmission required in high-speed applications,” said Bill Kysiak, Product Marketing Manager for Hirose Electric USA.

Available in 120, 144 and 168 positions, the FX10-3 Series has a stacking height range of 8 to 13 mm with 1 mm increments. Three types of interposers are offered; two that have grounding options with differential impedance values of 100 ohms and 85 ohms; and one interposer that does not provide grounding for all types of signals.

The FX10-3 Series is RoHS-compliant, with an operating temperature range of -55°C to +85°C, a rated voltage of 50V AC, a rated contact resistance of 130 milliohms, and an insulation resistance of 100 megaohms minimum at 100V DC.

The FX10-3 Series has already been used in high-speed transmission applications including base station transceivers, medical equipment, office imaging equipment, industrial machinery, servers and more.

For additional information about the FX10-3 Series 3-piece board-to-board connector, please visit:

<https://www.hirose.com/product/en/products/FX10/>



ABOUT HIROSE ELECTRIC

Hirose Electric Co., Ltd. is a leading global supplier of innovative interconnects, with sales of over \$1 billion to customers worldwide. Hirose employs advanced engineering services, superior customer support and worldwide manufacturing capabilities to provide value-based connector solutions for various industries including: industrial, telecommunication, consumer electronics, computer and automotive. More information can be found on Hirose Electric’s corporate website at www.hirose.com.

