Flexible printed circuit connector delivers up to 2.5 times more high FPC retention force

Hirose Electric has developed a 0.3 mm pitch (FPC) flexible printed circuit connector that supports high-speed transmissions and provides high retention forces. The back flip style actuator utilizes dual-sided FPC and helps it to achieve the excellent impedance characteristics that allow it to be used for high-speed transmissions and support both the Embedded DisplayPort (eDP ver.1.3) and MIPI (D-PHY) standards. The high FPC retention forces are produced by its proprietary contact structure and its aforementioned highly reliable back flip actuator. The FH35C Series delivers up to 2.5 times more FPC retention force than similar products offered by their competitors. The high FPC retention force and back flip design also allow for curved routing of the FPC.

With a mounted depth of only 3.2 mm, the FH35C Series connectors will save a significant amount of space on the PCB. The top and bottom contacts of the connector provide design flexibility for a wide range of applications, including smart phones, cameras & video recorders, notebooks & tablets, DVD & Blu-ray players, portable music players, handheld gaming systems, and small medical equipment.

The bottom side of the FH35C Series features a fully-enclosed molded structure. This provides added protection to the contacts and allows the space under the connector to be used for additional patterning. The contacts have an additional nickel barrier to prevent solder wicking, and the clearance between the contacts and housing were designed to prevent the capillary migration of flux from the SMT

leads to the contact points. The FH35C Series also features a rugged actuator that confirms when the locking function has been completed, and delivers the security and reliability of a Hirose connector.

With a low mounted profile of 0.9 mm, the FH35C Series connectors are available from 9 to 51 positions (9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 31, 33, 35, 37, 39, 41, 45, 49, 51), with an operating temperature range from –55 to +85°C. In addition, the FH35C Series connector complies with halogen-free requirements and is RoHS compliant.

For additional information about the FH35C Series connectors, please visit: www.hirose.com/us [1].

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[1] http://www.hirose.com/us