

## FX20 Series, 0.5mm Pitch, Floating, Board to Board Connectors

The FX20 series has been introduced to meet the requirement for floating connectors that can absorb mounting misalignment in applications where multiple stacking connectors are used.

The header connector has a unique floating structure embedded inside the fixed base of the housing. This allows an alignment movement in XY directions of +/- 0.6mm minimum to absorb mounting misalignment, vibration and dimensional errors. Large mating guides on each side of the connector allow for a alignment movement of +/-1.2mm in XY directions to simplify the mating operation and prevent incorrect insertion.

The receptacle features highly reliable double beam contacts. Each contact beam has a different vibration characteristic due to different contact forces that widens the frequency range to avoid resonance. This allows high vibration resistance and increased contact reliability. Furthermore the first beam contact has a self-cleaning function which eliminates dust from the contact path of the second beam contact. Although the 0.5mm pitch is fine, each contact has the current handling capacity of 0.5A (amps).

The contact area is protected from solder wicking and penetration of flux due to the clearance between the contact and housing to prevent capillary action. The board layout design allows board patterning underneath the connector for design flexibility.

Hirose's popular FX18 high speed, board to board connector series shares the same stack height variants as FX20, therefore both can be combined on the same board to offer a flexible high speed capability.

Ideal applications are industrial equipment, broadcast equipment, smart meters, medical devices, BTS, measuring instruments and projectors.

### Key Features

- Contact sizes: 20, 40, 60, 80, 100, 120, 140
- Current rating: 0.5A
- Pitch: 0.5mm
- Versions: Vertical, Right Angle
- Stack height: 15, 20, 25 & 30mm
- Voltage rating: 50V

For more information please contact Hirose.

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