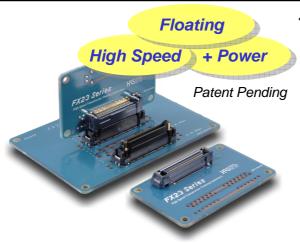


FX23 Series

0.5 mm Pitch, Floating Board to Board Connectors for High Speed Transmission



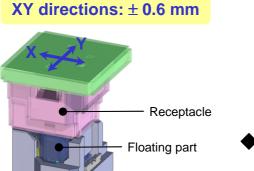
Features

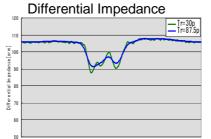
- 1. \pm 0.6 mm max. floating in XY directions
- 2. High speed transmission up to 6 Gbps
- 3. 2 power pins are provided to each side of the connector housings (3 Amps/pin)
- 4. Signal terminal is rated up to 0.5 Amp/pin
- 5. Vertical connection and parallel connection between 15 to 30 mm PCB distance are available
- 6. Accepts coating agent at SMT leads
- 7. Excellent mating alignment with large guide posts
- 8. RoHS compliant

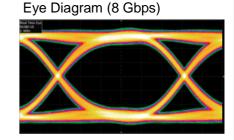
Floating Facilitates Multiple Mounting

Differential Impedance: 100 $\Omega \pm 10$ % [Vertical Connection Type]

(100 ps, 10/90 %)







Signal + Power Hybrid Saves Space

Contacts

Varieties

Number of Pos. Signal: 20, 40, 60, 80, 100, 120 pos. + Power: 4 pos.

Receptacle Receptacle (Straight) (Right Angle) FX23-xxS-0.5SV10 FX23-xxS-0.5SH FX23-xxS-0.5SV **Parallel** Vertical Connection Connection 15 30 mm Header FX23-xxP-0.5SV15 FX23-xxP-0.5SV20 (Straight) W = (15.9)W = (20.9)

Fixed base

Current Capacity: 3 Amps/pin

If 12 Amps is carried by signal contacts.

12A/0.5A = 24 pos.(Rated current of signal contact)

24 signal lines are sacrificed to carry the current.

Specifications

Operating Temperature Range	-55 °C to +85 °C (include temperature rise caused by current flow)
Rated Current	Signal Contact: 0.5 Amp Power Contact: 3 Amps
Rated Voltage	AC 50 V
Insulation Resistance	100 MΩ Min. (DC 100 V)
Withstanding Voltage	AC 150V for 1 minute
Contact Resistance	Signal Contact: 70 m Ω max. Power Contact: 30 m Ω max.
Insertion / Withdrawal	100 times

Specifications herein are subject to change without notice. Contact Hirose for latest specifications, drawings or availabilities.

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FX23-100P-0.5SV20 FX23-80S-0.5SH FX23-80P-0.5SV15 FX23-100P-0.5SV15 FX23-100S-0.5SV FX23-120P0.5SV15 FX23-100S-0.5SH FX23-120S-0.5SV FX23-120S-0.5SH FX23-80S-0.5SV FX23-120P-0.5SV20 FX23-40S0.5SV FX23-80S-0.5SV10 FX23-60S-0.5SV FX23-60P-0.5SV20 FX23-40P-0.5SV20 FX23-120S-0.5SV10 FX2340S-0.5SH FX23-60S-0.5SV10 FX23-20P-0.5SV15 FX23-20P-0.5SV20 FX23-60S-0.5SH FX23-100S-0.5SV10
FX23-20S-0.5SV10 FX23-60P-0.5SV15 FX23-80P-0.5SV20 FX23-40S-0.5SV10 FX23-40P-0.5SV15 FX23-20S0.5SH FX23-20S-0.5SV