

Announcement of the development of the "JI Series," high speed transmission floating connector equivalent to PCIe 5.0.



PCIe 5.0 equivalent high speed transmission floating connector "JI series"

1. <Product overview>

- This is a floating connector with a signal terminal pitch of 0.5mm.
- The transmission characteristics aim to be equivalent to PCIe 5.0 signals.
- The signal terminals have 20 to 200 poles.
- You can choose whether or not to include a power terminal. (Power terminal: 4-pin)
- per contact power terminal is designed to handle 6A.
- connection configuration is stacked mating.
- Stack height is 10-35mm.
- floating range is adjustable by ± 1.0 mm in the XY direction (10 mm to 15 mm) and ± 1.2 mm in the XY direction (20 mm to 35 mm).
- The connector's operating temperature is -40°C to $+125^{\circ}\text{C}$ (including temperature rise due to power supply).
- effective mating length is ± 1 mm.
- The lure size is ± 1.5 mm.

2. <Product specifications>

- Insulator materials: LCP (glass-filled reinforced) UL94V-0 material, color: black
- contact material: Copper alloy
- contact plating: Nickel plated base coat
(Contact area) gold-plated finish
(Tail section) gold-plated finish
- current rating: 0.3A per contact
- contact resistance: 100m Ω or less
- dielectric withstand voltage: AC 200V, 1 minute
- insulation resistance: DC 250V, 100M Ω or more
- operating temperature: -40°C to $+125^{\circ}\text{C}$
- Insertion and removal durability: 100 times

3. <Application>

- Automotive equipment market: HPC, integrated ECUs, etc..

* Because this is a product under development, the specifications, shape, and series name are subject to change without notice.