molex

The 0.30mm pitch non-ZIF FPC connector offers a compact size along with secure cable retention and low cable insertion force.

The 504281 series FPC connector is one of the smallest pitch non-ZIF types available. The dual contact feature enables the same connector to be used on parallel boards to simplify design and sourcing. The connector also has the same footprint pattern as Molex's 503566 front-flip type FPC connector for further design flexibility. A staggered contact design provides easier soldering along with smooth and low cable insertion force. Sufficient space between housing walls and terminals helps prevent solder flux intrusion.

FPC Connector, 0.30mm Pitch, Dual Contact, SMT, 1.00mm Height, 2.75mm Width, Non-ZIF Type

504281 Right Angle, SMT



Features and Benefits

Dual-contact non-ZIF design

Fine pitch, low profile, narrow width and short length

Staggered contact design

Optimum distance between odd and even terminal contact points

More than 0.05mm space between housing walls and terminals

Same footprint pattern as Molex's 503566 front-flip type

Markets and Applications

> Digital Still Camera (DSC)

- Compact DSC
- Digital Single-Lens Reflex Camera
- Mirrorless Interchangeable-Lens Camera
- Camera Lens
- > Mobile Equipment
 - Tablet PC
 - Notebook PC
- >Medical
 - Patient Monitoring
 - Therapeutic and Surgical



Tablet PC



Camera

Easy cable assembly and eliminates the need to source top-and-bottom contact styles

Provides maximum overall space savings

Facilitates easier soldering and lower cable insertion force

Creates gradual and alternate contact points for lower insertion force

Prevents solder flux intrusion

Provides design flexibility for different application needs



Notebook PC



Medical Equipment

molex

Specifications

REFERENCE INFORMATION

Packaging: Embossed Tape Use With: 0.20mm thick FPC Designed In: Millimeters RoHS: Compliant Halogen Free: Yes

ELECTRICAL

Voltage (max.): 50V Current (max.): 0.3A Contact Resistance: 120 milliohm max (Odd circuits); 90 milliohm max (Even circuits) Dielectric Withstanding Voltage: 250V AC for 1 minute Insulation Resistance: 50 Megohm min.

Product Features

MECHANICAL

Durability (min.): 10 cycles

PHYSICAL

Housing: LCP, Black, UL94 V-0 Actuator: PA, Grey, UL94 HB Contact: Phosphor Bronze Plating: Contact Area — Gold Solder Tail Area — Gold Underplating — Nickel PCB Thickness: Operating Temperature: -25 to +85°C FPC Connector, 0.30mm Pitch, Dual Contact, SMT, 1.00mm Height, 2.75mm Width, Non-ZIF Type

504281 Right Angle, SMT



A staggered contact design between terminal and cable pads provides smooth and low insertion force. (See chart on right).

Ordering Information

Series No.	Circuit Size
<u>504281-1100</u>	11
<u>504281-1300</u>	13
<u>504281-1700</u>	17
<u>504281-1900</u>	19