

0.25mm Pitch FPC Connectors

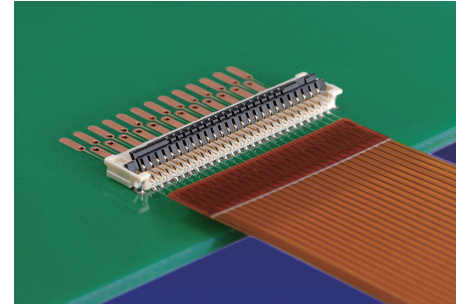
Right Angle, SMT, ZIF

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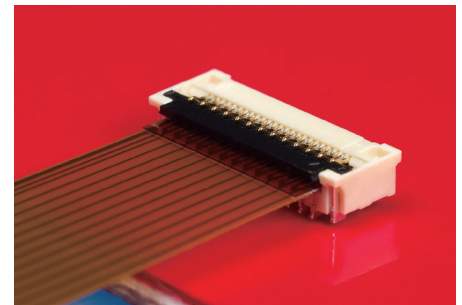
The 0.25mm Pitch FPC Connector family features a range of sizes and styles to accommodate other PCB components and add space savings

Features and Benefits

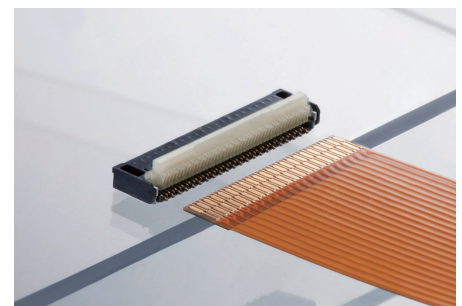
Compact design	Overall space savings for tight packaging applications
Spring feature on odd and even contacts	Higher contact and cable retention reliability, and protection to FPC cable pads
Actuator-to-housing friction lock	Increased mating retention and an audible “click” when mating
Space underneath FPC (503320 only)	Provides customers more PCB space to place components
Solder tabs under housing and footprint compatible	Space savings, and enables three different connector heights with same footprint design
Extended actuator design (except 502078-***10)	Easier handling, especially for larger circuit sizes
Zero Insertion Force (ZIF) contact design	Smooth cable insertion and extraction



502078 Series



503320 Series



503300 Series

Applications

Consumer

Smart Phone / Mobile Phone
Tablet PC
Digital Still Camera / Video Camera
Wearable Device
Medical Device
Fingerprint / Voice Recognition
Portable Navigation Equipment
Portable Game
Notebook PC
UAV / Drone



Smart phones



Portable Medical Devices



Drone

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Specifications

REFERENCE INFORMATION

Packaging: Embossed Tape
Use With: 0.20mm thick FFC/FPC
Designed In: Millimeters
RoHS: Yes
Low-Halogen Status: Low-Halogen

ELECTRICAL

Voltage (max.): 50V
Current (max.): 502078, 503300 - 0.2A
503320 - 0.3A
Contact Resistance:
502078, 503320
80 milliohms max. (Odd terminal)
50 milliohms max. (Even terminal)
503300
80 milliohms max. (Odd terminal)
60 milliohms max. (Even terminal)
Dielectric Withstanding Voltage: 150V AC
Insulation Resistance: 50 Megohm min.

MECHANICAL

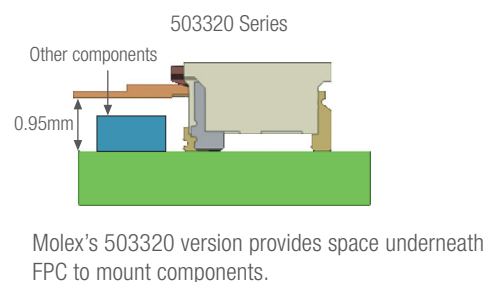
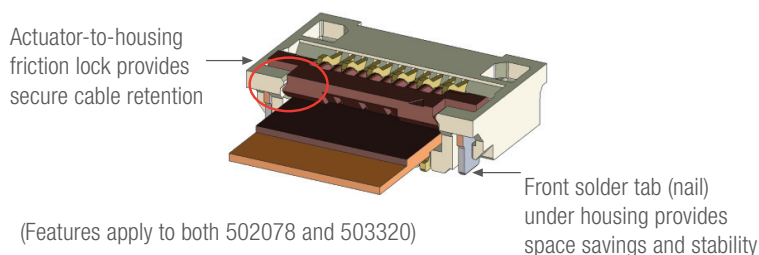
Durability (min.): 10 mating cycles

PHYSICAL

Housing/Actuator
502078-**10: Thermoplastic resin
502078-**60/62, 503320, 503300: LCP
Contact
502078-**60/62, 503320: Copper Alloy
502078-**10, 503300: Phosphor Bronze
Plating:
Contact Area — Gold
Solder Tail Area — Gold
Underplating — Nickel
Nail — Tin
Operating Temperature
502078: -20 to +85°C
503320, 503300: -40 to +85°C

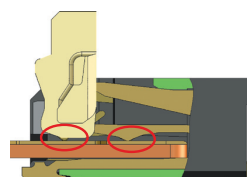
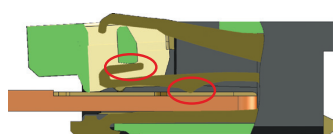
Additional Product Features

Locking and Space Saving Features for 502078 and 503320



Product Features of 503300

- 1) Moving terminals provide superior contact and actuator reliability 2) Full ZIF design



Ordering Information

Order No.	Description	Circuit Sizes	Height (mm)	Width (mm)	Quantity (pieces/reel)
<u>502078-**10</u>	1.00mm Height, Bottom Contact, Short Actuator	17, 21, 25, 33, 39, 51	1.00	2.75	3,000
<u>502078-**60</u>	1.00mm Height, Bottom Contact, Long Actuator	13, 17, 21, 25, 33, 37, 39, 51, 53, 61		2.98	3,000
<u>502078-**62</u>		45			6,000
<u>503320-**60</u>	1.62mm Height, Bottom Contact	25, 37, 41	1.65	2.98	3,000
<u>503300-**10</u>	1.20mm Height, Top Contact	21, 29, 31, 37, 41, 43, 53	1.20	3.20	3,000

www.molex.com/product/smt_ffc-fpc.html