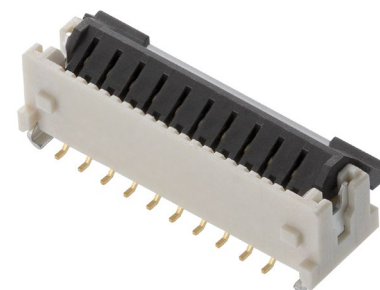


V-Flip Series 0.50mm Pitch FFC/FPC Connectors >

The Easy-On FFC/FPC Connector has a secure flip, vertical-locking and space-saving design in multiple circuit sizes for various applications.



ADVANTAGES AND FEATURES

Provides increased space-savings

The connector is designed with low height and narrow width, saving space on PCB and allowing multiple connectors to be used in parallel on limited PCB space.

Provides faster connection

The connectors are delivered with the actuator in an unlocked status, eliminating the need to open the lock before cable insertion and enabling a faster, more efficient connection process.

Supports easy mating

The connectors include a vacuum space for a SMT nozzle that provides a wider pick-and-place area, helping prevent slippage and dropping while supporting easier mating during assembly.

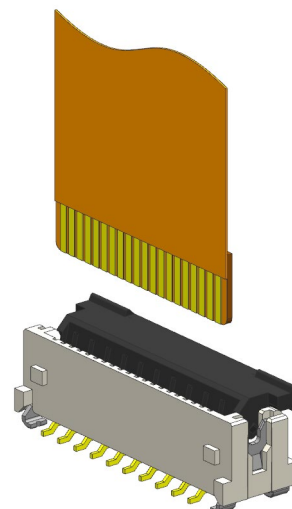
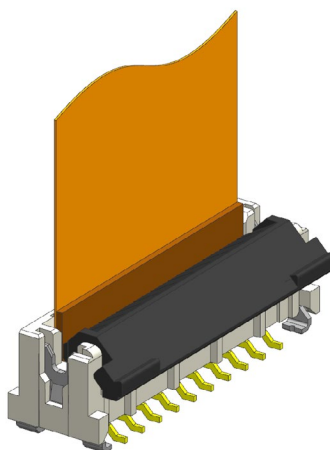
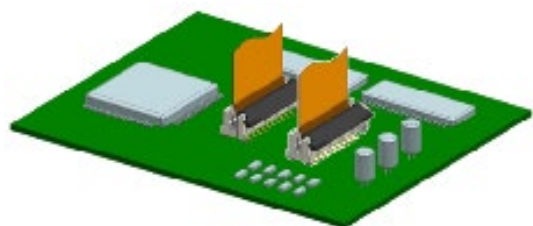
Series	501951
Pitch	0.50mm
Number of Circuits	4 to 70
Actuator	Front flip
Current	0.4, 0.5A
Operating Temperatures	-40 to +125°C (gold) -25 to +85°C (tin-bismuth)

Allows easy operation

The connector uses a 45° flip-lock mechanism that enables easy rotation by the operator while providing secure cable retention for reliable use across various applications.

Supports environmental considerations

The connector features low-halogen construction to help meet material selection requirements for reduced environmental impact.



V-Flip Series 0.50mm Pitch FFC/FPC Connectors >

MARKETS AND APPLICATIONS

Appliances

Flat TVs
Game units
Printers

Industrial

Drones
IoT interconnection devices

Medtech

Patient-monitoring devices

Mobile Devices

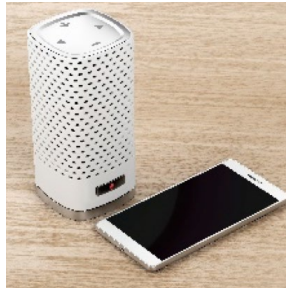
POS terminals
Smart speakers

Power for Data Centers

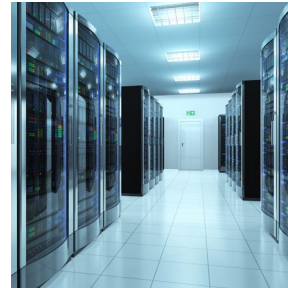
Servers

Telecommunications

Hubs



Smart Speakers



Servers



POS Terminals



Printers



Drones

SPECIFICATIONS

Reference Information

Packaging: Embossed
UL File No.: UL94V-0
Designed In: Millimeters
RoHS: Yes
Halogen Free: Low halogen

Electrical

Voltage (max.): 50V
Current (max.): 0.5A
Contact Resistance (max.): 40 milliohms
Dielectric Withstanding Voltage: 250V AC
Insulation Resistance (min.): 50 Megohms

Mechanical

FPC Retention Force: Refer to product spec
Durability (max.): 20 cycles

Physical

Housing: LCP, UL94V-0
Actuator: PA9T, UL94V-0
Contact: Copper alloy
Plating:
Contact Area—gold
Solder Tail Area—gold
Nail Solder Tail Area—tin
Underplating—nickel
FFC/FPC Thickness: 0.3 +/-0.05mm
Operating Temperatures: -40 to +125°C