# Easy-On FFC/FPC 0.50mm Pitch V-Flip Connector, 501951 Extension

The Easy-On FFC/FPC 501951 Connector is a general market product with secure flip, vertical locking and a space-saving design in multiple circuit sizes for various customer applications

Secure cable retention Withstands high vibration

## **Features and Advantages**

# Flip lock 45° rotation Allows for easy operation by operator

### Actuator delivered

in unlocked status Makes the connection process quicker by eliminating the need to open lock

### Nickel barrier

Eliminates concerns about solder and flux wicking

### Low-halogen material

Is best material selection for environmental considerations

# **Markets and Applications**

#### Automotive

Car navigation

Car infotainment systems

### Consumers

- Home appliances
- Flat TVs
- Game units
- Printers

### Industrial

UAVs (Drones) IoT interconnection devices

# Smart speakers

### Mobile Devices

POS terminals

Telecommunications/Networking

- Hubs
- Datacom
  - Servers
- Medical
  - Patient monitoring



Smart Speaker



POS Terminal



Car Infotainment



Space-saving design

Allows multiple uses in

parallel on limited PCB

space





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501951-\*\*\*\*

Wide pick-and-place area Has a vacuum space for a

SMT nozzle

Office Equipment

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## **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

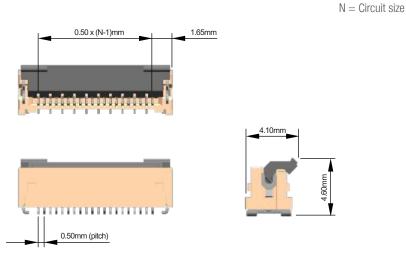
FPC Retention Force: Refer to product spec Durability (max.): 20 times

### PHYSICAL

Housing: LCP, UL94V-0 Actuator: PA9T, UL94V-0 Contact: Copper alloy Plating: Contact Area — Gold (Au) Solder Tail Area — Gold (Au) Nail Solder Tail Area — Tin (Sn) Underplating — Nickel (Ni) FFC/FPC Thickness: 0.3 +/-0.05mm Operating Temperature: -40 to +85°C or -40 to +125°C

### **Dimensions**

Refer to molex.com for detail dimension



# **Ordering Information**

Series No.	Pitch (mm)	Orientation	Contact Position	Circuits	Operating Temperature	Plating
<u>501951-**30</u>	0.50	Vertical	Vertical	4 to 70	-40 to +85°C	Gold
<u>501951-**50</u>	0.50	Vertical	Vertical	4 to 70	-40 to +125°C	Gold

Replace \*\* with circuit size

### www.molex.com/link/easyon.html

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