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

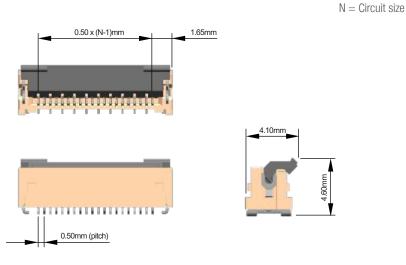
FPC Retention Force: Refer to product spec Durability (max.): 20 times

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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