Easy-On FFC/FPC Connector, 0.50mm pitch, V-Flip Series
Product 501951

Vertical Flip Connectors facilitate multiple SMT on PCB, and feature 4 to 70 circuit sizes, wide operating temperature of up to 125°C and a flip lock for secure locking

Features and Advantages

- **Secure cable retention**
  - Withstands high vibration

- **Flip lock 45° rotation**
  - Easy operation by operator

- **Actuator delivered in open condition**
  - Quicker assembly process compared to closed actuators

- **Ni barrier**
  - Avoids solder and flux wicking

- **Vertical FFC connector**
  - Allows placement anywhere on the PCB, offering design flexibility

- **Wide pick-and-place area**
  - Offers enough space for the SMT nozzle to hold the connector

- **Low-halogen material**
  - Meets industry environmental requirements

Applications

- **Automotive**
  - Car navigation
  - Car infotainment

- **Office Equipment**
  - Printer

- **Consumer**
  - Home appliances
  - Flat TVs

- **Industry**
  - UAVs (drones)
  - IoT interconnection devices

- **Datacom**
  - Servers

- **Medical**
  - Patient-monitoring systems

- Car Infotainment
- Office Equipment
- Servers
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Specifications

REFERENCE INFORMATION
Packaging: Embossed Tape and Reel
Use With: FFC/FPC
Designed In: Millimeters
RoHS: Yes
Halogen Free: Low-Halogen

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

MECHANICAL
FFC/FPC Thickness: 0.30mm
Durability (max.): 20 cycles

PHYSICAL
Housing: LCP, UL 94V-0, White
Actuator: PA, UL 94V-0, Black
Plating:
  Contact Area — Gold
  Solder Tail Area — Gold
  Underplating — Nickel
Operating Temperature: -40 to +85°C or
  -40 to +125°C

CIRCUIT SIZE
4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 70

Dimensions

Refer to molex.com for detail dimension

Ordering Information

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

Replace ** with circuit size

www.molex.com/link/easyon.html

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