Molex’s legacy Non-ZIF FFC/FPC connectors provide secure electrical and mechanical contact for consumer devices, gaming devices, office automation and other applications that require space savings and cost performance.

**Features and Benefits**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-ZIF (zero insertion force) design</td>
<td>Simple operating process</td>
</tr>
<tr>
<td>Two PCB footprint and contact side options</td>
<td>Facilitates design flexibility, easier soldering and lower cable insertion force</td>
</tr>
<tr>
<td>Secure cable retention force using FFC/FPC</td>
<td>Provides secure electrical contact</td>
</tr>
<tr>
<td>Wide range of circuit sizes</td>
<td>Offers design flexibility</td>
</tr>
<tr>
<td>Tin-silver-bismuth plating option is available</td>
<td>Prevents plating whiskering that can cause signal intermittency problems; cost savings versus gold-plated types</td>
</tr>
</tbody>
</table>

**Applications**

**Consumer**
- POS (Point Of Sales) device
- Portable Gaming Machine
- 3D Glass for virtual reality devices

**Datacommunications**
- Photocopier
- Printer
**FFC/FPC Connectors**
**Non-ZIF Vertical**

*0.50mm Pitch, 78119, 78127 Series*

### Specification

**REFERENCE INFORMATION**
- Packaging: Embossed tape
- Designed In: Millimeters
- RoHS: Yes
- Halogen Status: Low Halogen

**ELECTRICAL**
- Voltage (max.): 50V
- Current (max.): 0.5A
- Contact Resistance: 30 milliohms max.
- Dielectric Withstanding Voltage: 500V AC
- Insulation Resistance: 50 Megohms min.
- Operating Temperature: -40 to +85°C

**MECHANICAL**
- Durability (min.): 20 cycles

**PHYSICAL**
- Housing: LCP, Black
- Terminal: Phosphor Bronze

**PLATING**
- Contact Area and Tail Area: Tin Bismuth or Gold
- Underplating: Nickel

### Additional Product Features

**Dimensional Overview** (78119 shown) (unit: mm)

- **Length**: \(0.50 \times (N-1) + 2.10\)
- **Height**: 4.10
- **Tail to tail**: 3.40
- **Insertion Area Width**: \((0.50 \times (N-1)) + 1.10\)

**PCB Layouts**

**Ordering Information**

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Circuit Size</th>
<th>Plating</th>
</tr>
</thead>
<tbody>
<tr>
<td>78119-**10</td>
<td>6 to 36</td>
<td>Tin Bismuth</td>
</tr>
<tr>
<td>78119-**20</td>
<td></td>
<td>Gold</td>
</tr>
<tr>
<td>78127-**10</td>
<td></td>
<td>Tin Bismuth</td>
</tr>
<tr>
<td>78127-**20</td>
<td></td>
<td>Gold</td>
</tr>
</tbody>
</table>

Note: Please contact Molex for Tin Silver Bismuth plating products.