The FV2R Series Easy-On FFC/FPC 0.50mm Pitch Vertical Connectors, with ground terminals and low-profile height, offer high-speed data rates with reliability for a variety of compact general-market applications.

**Features and Advantages**

- **Positive lock latch with audible click on mating**
  Provides mating confirmation and high withdrawal force for secure mating retention.

- **Ground contacts**
  Offer product shielding.

- **Low-profile design**
  Offers space savings.

- **Low-halogen material**
  Addresses environmental considerations.

- **Wide pick-and-place area**
  Provides vacuum space for SMT nozzle.

**Applications**

- **Automotive**
  Car displays

- **Consumer**
  CCTV cameras
  Drones
  Tablets/PCs

- **Home Appliance**
  Home wall pads

- **Car Display**
- **Drones**
- **Security Cameras**
# Specifications

**REFERENCE INFORMATION**
Packaging: Embossed tape and reel  
Designed In: Millimeters  
RoHS: Yes  
Halogen Free: Low-Halogen

**ELECTRICAL**  
Voltage (max.): 50V  
Current (max.): 0.5A  
Impedance (max.): 100±10% ohms

**MECHANICAL**  
FFC/FPC Thickness: 0.33 mm  
Durability (min.): 20 cycles

**PHYSICAL**  
Receptacle Housing: Heatproof Resin UL94-V0  
Contact: Phosphor Bronze  
Plating:  
  - Contact Area: Gold  
  - Solder Tail Area: Gold  
  - Underplating: Nickel  
Operating Temperature: -20 to +85°C

## Insertion Loss (dB)

<table>
<thead>
<tr>
<th></th>
<th>80.00mm FFC @0.5GHz</th>
<th>300.00mm FFC @0.5GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-0.626</td>
<td>-1.794</td>
</tr>
</tbody>
</table>

## Return Loss (dB)

<table>
<thead>
<tr>
<th></th>
<th>80.00mm FFC @1.0GHz</th>
<th>300.00mm FFC @1.0GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-20.873</td>
<td>-28.323</td>
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</tbody>
</table>

## NEXT (dB)

<table>
<thead>
<tr>
<th></th>
<th>80.00mm FFC @0.5GHz</th>
<th>300.00mm FFC @0.5GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-45.747</td>
<td>-33.244</td>
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</tbody>
</table>

## FEXT (dB)

<table>
<thead>
<tr>
<th></th>
<th>80.00mm FFC @1.0GHz</th>
<th>300.00mm FFC @1.0GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-57.529</td>
<td>-39.151</td>
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</tbody>
</table>

## Differential Impedance (t_{20-80}=50ps)

<table>
<thead>
<tr>
<th></th>
<th>80.00mm FFC</th>
<th>300.00mm FFC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>93.340 Ohms</td>
<td>92.206 Ohms</td>
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</tbody>
</table>

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## Ordering Information

<table>
<thead>
<tr>
<th>Series No.</th>
<th>Pitch (mm)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>205195-0360</td>
<td>0.50</td>
<td>Plug</td>
</tr>
<tr>
<td>205196-0360</td>
<td>0.50</td>
<td>Receptacle</td>
</tr>
</tbody>
</table>

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USA/04/GF/2019.04  
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