### Configuration
- 2.4mm Male Connector
- 50 Ohms
- Straight Body Geometry
- End Launch Interface Type
- Clamp/Solder (Captive Contact) Attachment

### Features
- Max. Operating Frequency 50 GHz
- Good VSWR of 1.4:1
- Gold Plated Beryllium Copper Contact
- Reusable end launch installation
- PCB Solder or Solderless Contact
- M1.6-0.35 Mounting Screws

### Applications
- General Purpose Test
- Signal Integrity Measurements
- Chip Evaluations
- COPDE5
- 25 GbE
- Substrate Characterization
- Test Fixtures

### Description
Pasternack's PE45514 2.4mm removable end launch PCB connector is part of our full line of RF components available for same-day shipping. Our 2.4mm solderless edge launch connector operates to a maximum frequency of 50 GHz and offers a low VSWR of 1.4:1. The clamp-on removable design allows this connector to be reused, supporting multiple chip evaluations, signal integrity and millimeter wave applications.

Our 2.4mm solderless end launch PCB connector PE45514 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide superior signal integrity, higher data rates or simply a test fixture, Pasternack has the right high speed PCB edge launch connections for you.

### Electrical Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>DC</td>
<td>50</td>
<td>50</td>
<td>GHz</td>
</tr>
<tr>
<td>VSWR</td>
<td></td>
<td>1.4:1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insertion Loss</td>
<td></td>
<td>0.43</td>
<td></td>
<td>dB</td>
</tr>
<tr>
<td>Operating Voltage (AC)</td>
<td></td>
<td>400</td>
<td></td>
<td>Vrms</td>
</tr>
</tbody>
</table>

### Electrical Specification Notes:
Actual VSWR performance is largely dependent on circuit board design. For optimal results, the connector and circuit launch geometry should be modeled using Electromagnetic Simulation tools.

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 2.4mm Male Connector Clamp/Solder (Captive Contact) Attachment End Launch PCB, Removable End Launch, Low Profile PE45514
Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

Mechanical Specifications

Size
- Length: 0.881 in [22.38 mm]
- Width/Dia.: 0.5 in [12.70 mm]
- Height: 0.5 in [12.7 mm]

Material Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Material</th>
<th>Plating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>Beryllium Copper</td>
<td>Gold</td>
</tr>
<tr>
<td>Insulation</td>
<td>PEI</td>
<td></td>
</tr>
<tr>
<td>Body</td>
<td>Passivated Stainless Steel</td>
<td></td>
</tr>
<tr>
<td>Coupling Nut</td>
<td>Passivated Stainless Steel</td>
<td></td>
</tr>
</tbody>
</table>

Mechanical Specification Notes:
Launch Pin is Gold Plated Beryllium Copper

Environmental Specifications

Temperature
- Operating Range: -40 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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Assembly Instruction

Step 1: Mount the end launch connector in the desired position on the board.

Step 2: Center the connector on the trace.

Step 3: Verify that the transition block is secured on the board.

Step 4: Tighten the M1.6-0.35 mounting screws to the boards suggested torque or until the connectors is secure.

(Steps 5-7 optional, depending on application)
Step 5: If soldering the launch pin to the trace, flow solder the entire length of the contact area.
Step 6: To avoid performance mistakes, remove excess solder.
Step 7: Clean any residue from around the solder joint.

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2.4mm Male Connector Clamp/Solder (Captive Contact) Attachment End Launch PCB, Removable End Launch, Low Profile

RF Connectors Technical Data Sheet

Recommended PCB Cutouts

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RF Connectors
Technical Data Sheet

Typical Performance Data

VSWR

0.0 GHz | 5.0 GHz | 10.0 GHz | 15.0 GHz | 20.0 GHz | 25.0 GHz | 30.0 GHz | 35.0 GHz | 40.0 GHz | 45.0 GHz | 50.0 GHz

Insertion Loss

0.0 GHz | 5.0 GHz | 10.0 GHz | 15.0 GHz | 20.0 GHz | 25.0 GHz | 30.0 GHz | 35.0 GHz | 40.0 GHz | 45.0 GHz | 50.0 GHz

Measurement is for two connectors with 1.0 inch (25.4mm) length of substrate

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RF Connectors Technical Data Sheet PE45514

2.4mm Male Connector Clamp/Solder (Captive Contact) Attachment End Launch PCB, Removable End Launch, Low Profile from Pasternack Enterprises has same day shipment for domestic and international orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/2.4mm-male-end-launch-pcb-connector-pe45514-p.aspx

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