



2.92mm Female Connector Clamp/Solder (Captive Contact) Attachment End Launch PCB, Removable End Launch, 0.35 Width

RF Connectors Technical Data Sheet

PE45400

Configuration

- 2.92mm Female Connector
- 50 Ohms
- Straight Body Geometry
- End Launch Interface Type
- Clamp/Solder (Captive Contact) Attachment

Features

- Max. Operating Frequency 40 GHz
- Excellent VSWR of 1.15:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to ASTM B488
- Reusable end launch installation
- PCB Solder or Solderless Contact
- Narrow width of 0.35

Applications

- General Purpose Test
- PCB Applications
- Coplanar Waveguide Edge Launches
- Signal Integrity Measurements
- Chip Evaluations
- SERDES
- 25 GbE
- Substrate Characterization
- Test Fixtures

Description

Pasternack's PE45400 2.92mm removable end launch PCB connector is part of our full line of RF components available for same-day shipping. Our 2.92mm solderless edge launch connector operates to a maximum frequency of 40 GHz and offers an excellent VSWR of 1.15:1. The narrow 0.350 inch width connector body saves PCB real estate, supporting higher signal counts for chip evaluations, signal integrity or millimeter wave applications.

Our 2.92mm solderless end launch PCB connector PE45400 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

| Description | Minimum | Typical | Maximum | Units |
|------------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 40 | GHz |
| VSWR | | | 1.15:1 | |
| Insertion Loss | | | 0.12 | dB |
| Operating Voltage (AC) | | | 650 | Vrms |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------|----------|----------|----|----|----|-------|
| Frequency Range | DC to 18 | 18 to 40 | | | | GHz |
| VSWR, Max | 1.1:1 | 1.15:1 | | | | |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.92mm Female Connector Clamp/Solder \(Captive Contact\) Attachment End Launch PCB, Removable End Launch, 0.35 Width PE45400](#)



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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.

Mechanical Specifications

Size

| | |
|------------|---------------------|
| Length | 0.599 in [15.21 mm] |
| Width/Dia. | 0.35 in [8.89 mm] |
| Height | 0.321 in [8.15 mm] |

Material Specifications

| Description | Material | Plating |
|-----------------|------------------|---------------------|
| Contact | Beryllium Copper | Gold ASTM B488 |
| Insulation | PCTFE | |
| Outer Conductor | Steel | |
| Body | Brass | Nickel AMS 2404B |

Mechanical Specification Notes:

Launch Pin is Gold Plated Beryllium Copper

Environmental Specifications

Temperature

Operating Range -55 to +165 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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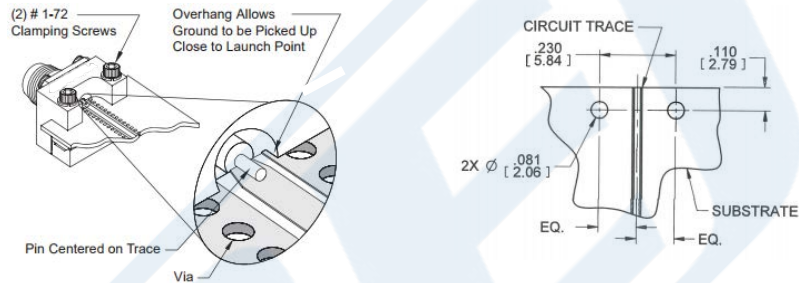
2.92mm Female Connector Clamp/Solder (Captive Contact)
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Assembly Instruction

End Launch Connectors - Installation Procedure

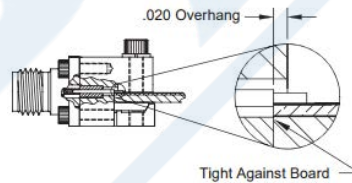
Step 1: Mount the end launch connector, PE45400, in the desired position on the board.

Step 2: Center the connector on the trace.



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

Step 4: Tighten the 1-72 mounting screws to your boards suggested torque or until the connector is secure.

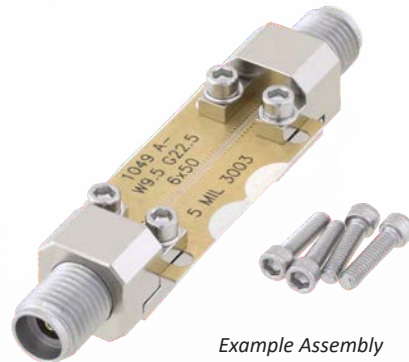


(Steps 5 – 7 optional, depending on application)

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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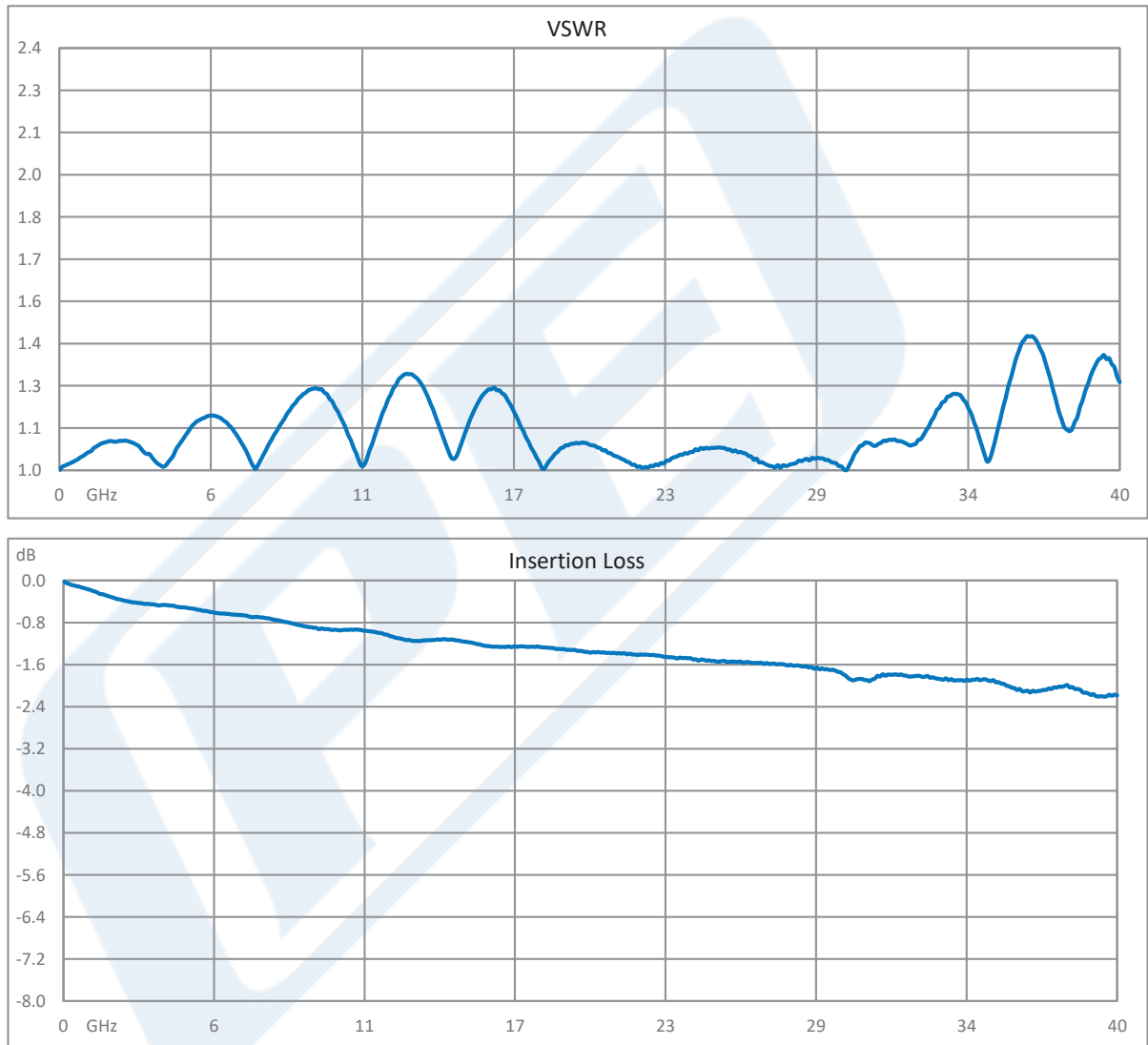


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Typical Performance Data



Test Data Represents Two Connectors and a Microstrip Test Circuit

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2.92mm Female Connector Clamp/Solder (Captive Contact) Attachment End Launch PCB, Removable End Launch, 0.35 Width 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.

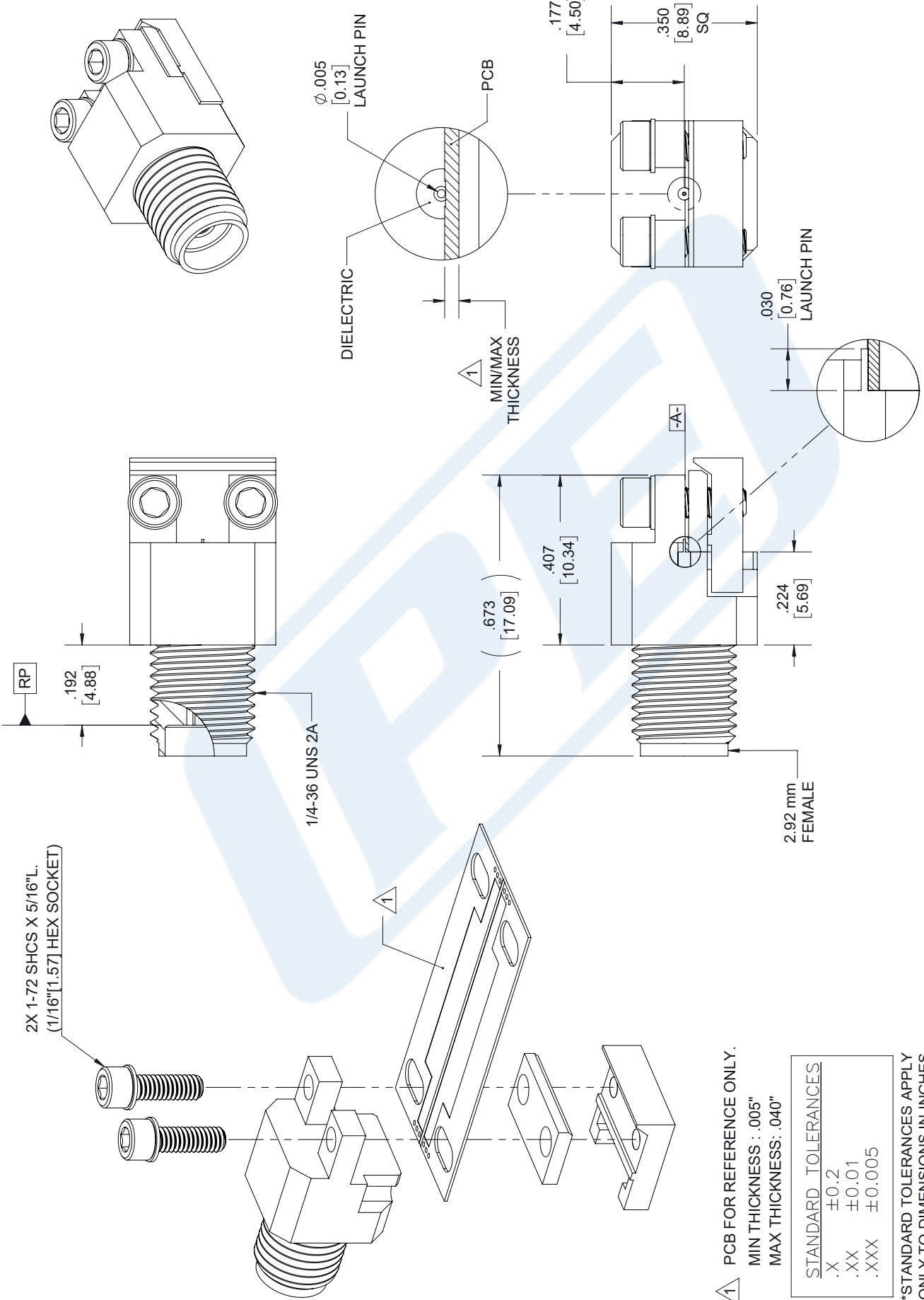
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. 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.

PE45400 CAD Drawing

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End Launch PCB, Removable End Launch, 0.35 Width



NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE
PE45400

CAGE CODE 53919

SCALE N/A

SIZE A

CAD FILE 121917

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