



1.85mm Male Connector Clamp Attachment Vertical Launch PCB for Microstrip

RF Connectors Technical Data Sheet

PE45691

Configuration

- 1.85mm Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: Vertical Launch

Features

- Max. Operating Frequency 67 GHz
- Good VSWR of 1.6:1
- Gold Plated Beryllium Copper Contact

Applications

- General Purpose Test
- PCB Applications
- Chip Evaluations
- High Speed Digital Boards
- Vertical Launch Test Fixtures

Description

Pasternack's PE45691 1.85mm male connector with clamp attachment for Vertical Launch PCB is part of our full line of RF components available for same-day shipping. Our 1.85mm male connector operates up to a maximum frequency of 67 GHz and offers good VSWR of 1.6:1.

Our 1.85mm male connector PE45691 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 an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		67	GHz
VSWR			1.6:1	

Electrical Specification Notes:

ANSYS HFSS models (version 17.0 or newer) for 3D EM(Electromagnetic) Simulation available upon request

Mechanical Specifications

Size

Length	0.5 in [12.7 mm]
Width/Dia.	0.39 in [9.91 mm]
Weight	3.2 lbs [1.45 kg]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1.85mm Male Connector Clamp Attachment Vertical Launch PCB for Microstrip PE45691](#)



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Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Body	Stainless Steel	

Environmental Specifications

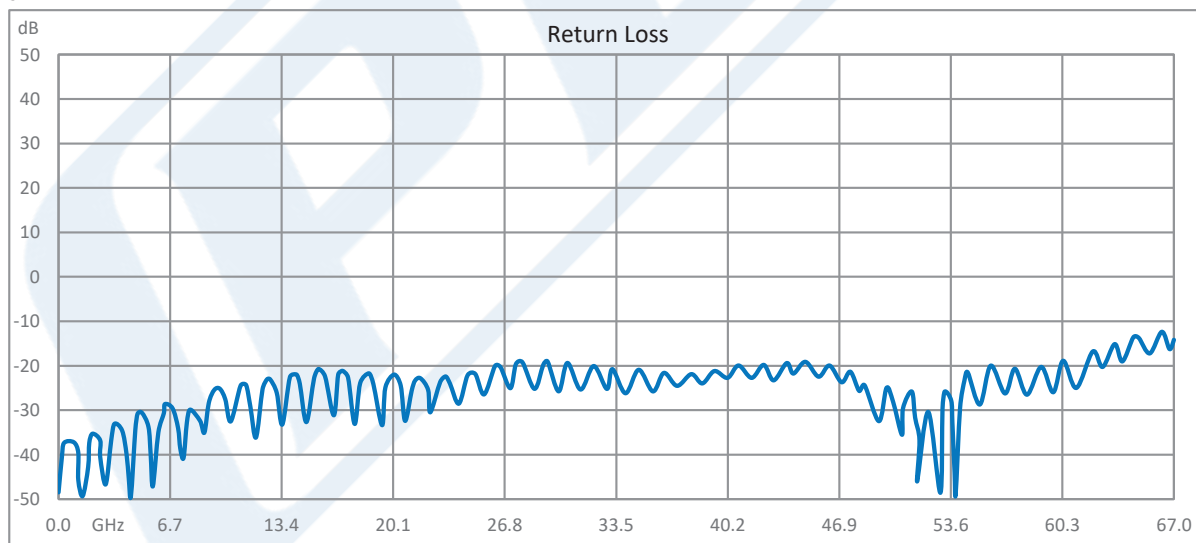
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Return Loss and Insertion Loss measured using a 60mm trace on an 8 mil thick substrate and two vertical launch connectors.

Typical Performance Data



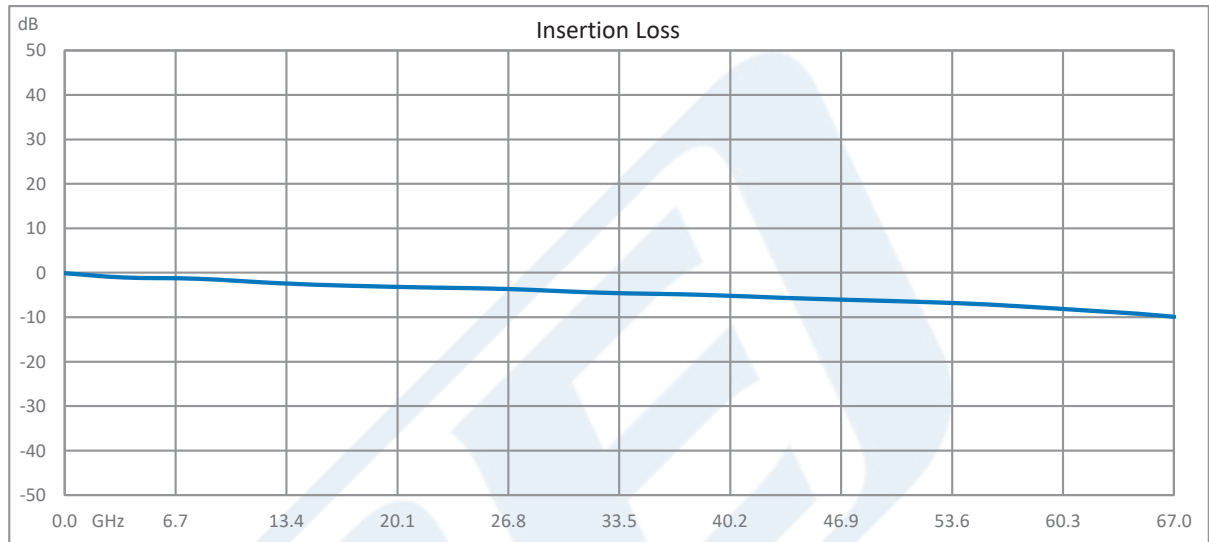
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1.85mm Male Connector Clamp Attachment Vertical Launch PCB for Microstrip from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1.85mm Male Connector Clamp Attachment Vertical Launch PCB for Microstrip PE45691](https://www.pasternack.com/1.85mm-male-vertical-launch-pcb-connector-pe45691-p.aspx)

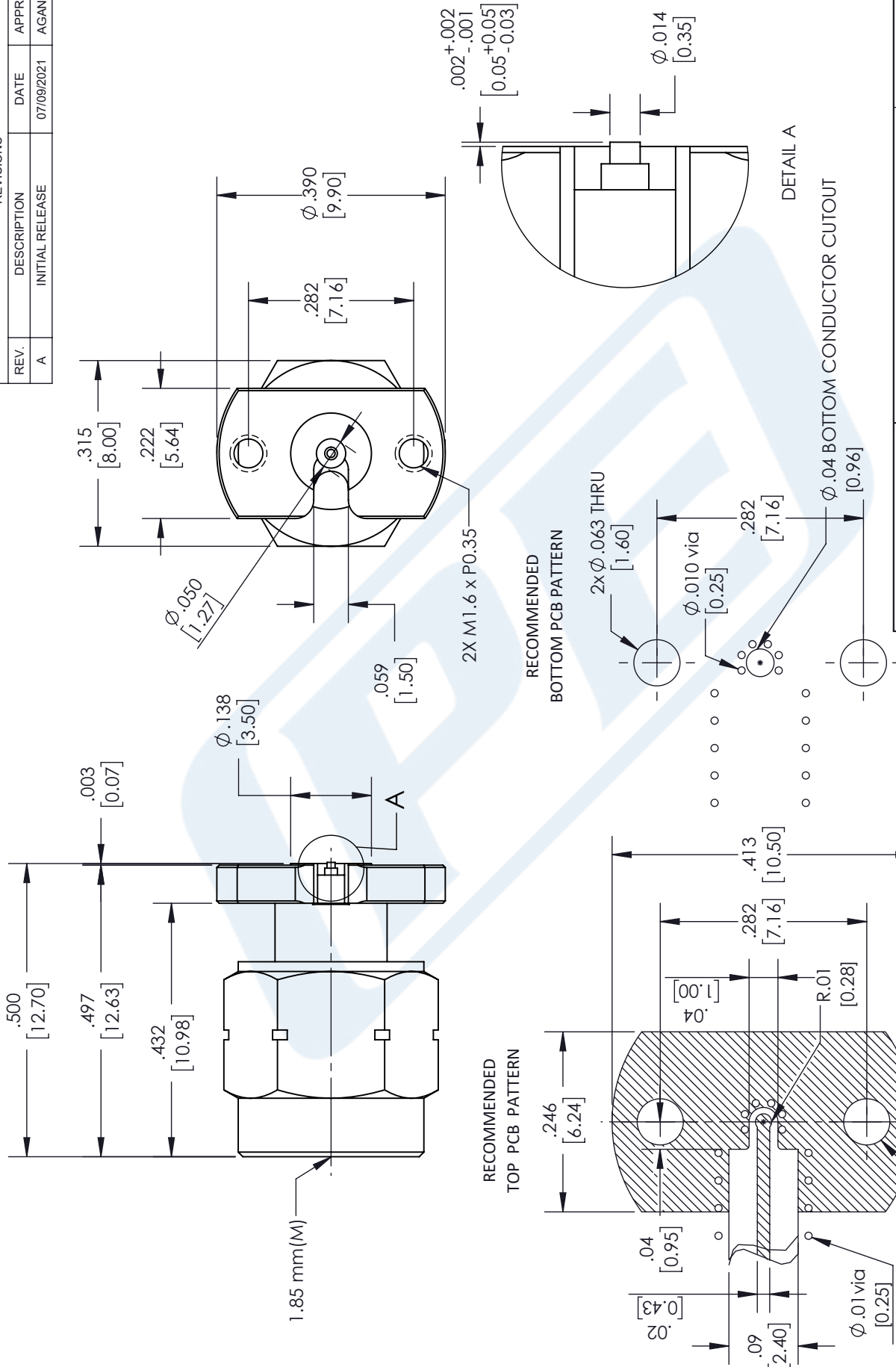
URL: <https://www.pasternack.com/1.85mm-male-vertical-launch-pcb-connector-pe45691-p.aspx>

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.

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	07/09/2021	AGANWANI

<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p>	<p>TOLERANCES:</p> <p>X ± .2 [.008] FRACTIONS XX ± .02 [.51] + 1/32 XXX ± .005 [.13] ANGLES ± 1°</p>		<p>THIRD-ANGLE PROJECTION</p> 	
	<p>CABLE LENGTH (L) TOLERANCES:</p> <p>L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5% / -0</p>		<p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.</p>	
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<p>SIZE</p>		<p>CAGE CODE</p>	<p>DRAWN BY</p>	<p>ITEM NO.</p>
<p>A</p>		<p>53919</p>	<p>MVEERAPPAN</p>	<p>PE45691</p>
<p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>				
<p>SCALE</p>		<p>1 OF 1</p>		<p>REV</p>
<p>A</p>		<p>N/A</p>		<p>A</p>



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