



SMP Male Limited Detent Connector Solder Attachment Thru Hole PCB, Square Body, Up To 8 GHz

RF Connectors Technical Data Sheet

PE44776

Configuration

- Limited Detent SMP Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Thru Hole Interface Type
- Solder Attachment

Features

- Max. Operating Frequency 18 GHz
- Good VSWR of 1.4:1
- Gold Plated Beryllium Copper Contact
- Blind Mate Connector

Applications

- General Purpose Test
- PCB Applications

Description

Pasternack's PE44776 SMP male limited detent connector with solder attachment for thru hole PCB is part of our full line of RF components available for same-day shipping. Our SMP male connector operates up to a maximum frequency of 18 GHz and offers good VSWR of 1.4:1. The Pasternack blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated.

Our SMP male connector PE44776 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		18	GHz
VSWR			1.4:1	
Dielectric Withstanding Voltage (AC)			500	Vrms
Inner Conductor DC Resistance			6	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms

Electrical Specification Notes:
Insertion loss = $0.13 \times \sqrt{f(\text{GHz})}$ dB max.

Mechanical Specifications

Size

Length	0.279 in [7.09 mm]
Width/Dia.	0.236 in [5.99 mm]
Height	0.236 in [5.99 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Male Limited Detent Connector Solder Attachment Thru Hole PCB, Square Body, Up To 8 GHz PE44776](#)



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Weight	0.003 lbs [1.36 g]
Mating Cycles	500 Cycles

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Body	Brass	Gold

Environmental Specifications

Temperature

Operating Range	-65 to +165 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Assembly Instruction

SMP Male Limited Detent Connector Solder Attachment Thru Hole PCB, Square Body, Up To 8 GHz 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.

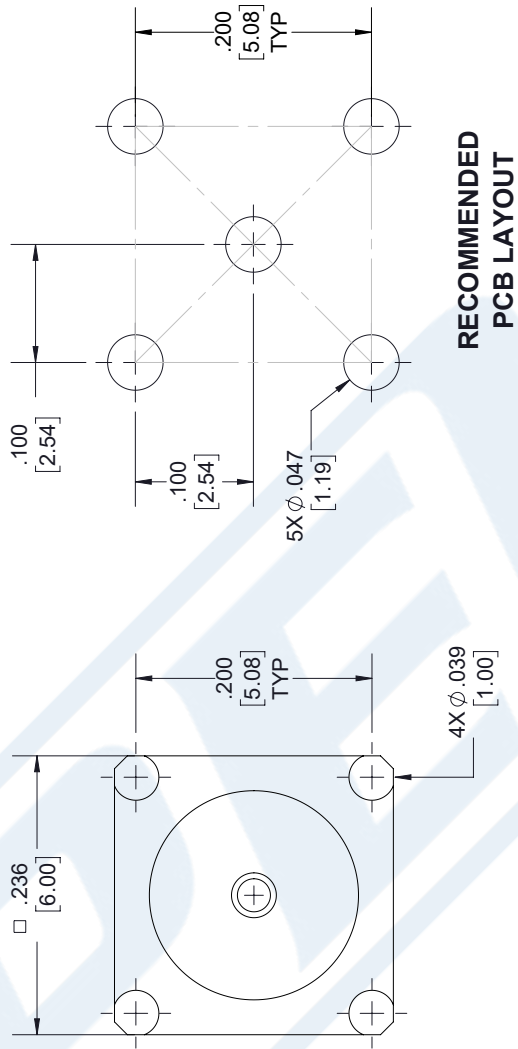
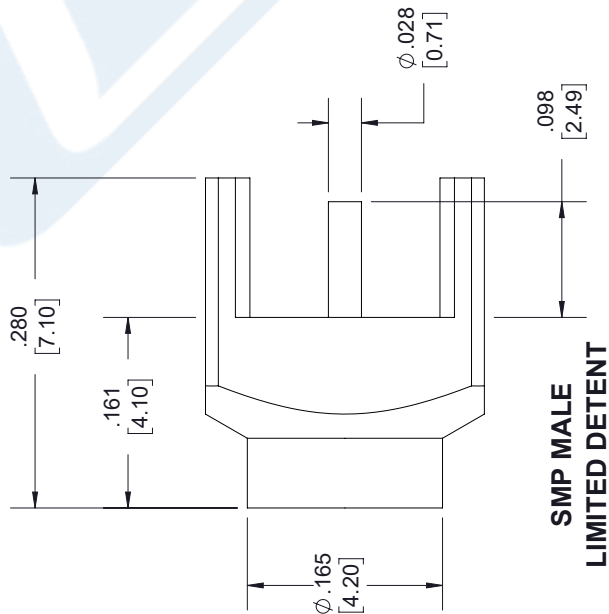
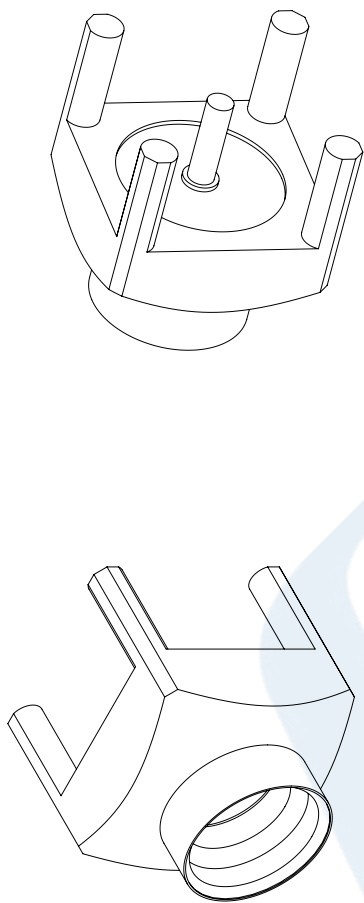
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URL: <https://www.pasternack.com/smp-male-standard-thru-hole-pcb-connector-pe44776-p.aspx>

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.

PE44776 CAD Drawing

SMP Male Limited Detent Connector Solder Attachment
Thru Hole PCB, Square Body, Up To 8 GHz



STANDARD TOLERANCES

.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PE44776

CAGE CODE 53919

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].

CAD FILE 06/12/18

SCALE N/A

SIZE A

7361