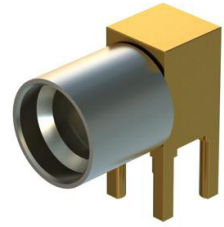


SMP Male Right Angle Engineering Grade Full Detent Connector Solder Attachment Thru Hole PCB



PE48097

Configuration

- Full Detent SMP Male Connector
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: Thru Hole
- Engineering Grade Design

Features

- Max. Operating Frequency 18 GHz
- Excellent VSWR of 1.25:1
- Gold over Nickel-Phosphorus Alloy over Copper Plated Beryllium Copper Contact
- Blind Mate Connector

Applications

- General Purpose Test
- PCB Applications

Description

Pasternack's PE48097 Right Angle SMP Male Full Detent Connector Solder Attachment for Thru Hole Cable, 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 excellent VSWR of 1.25:1. 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. Its right angle body geometry allows for easier connections in tight spaces.

Our SMP male right angle connector PE48097 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.

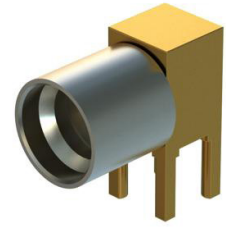
Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.25:1	
Insertion Loss			0.255	dB
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Inner Conductor DC Resistance			6	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms
RF Leakage	65			dB
Impedance		50		Ohms

Electrical Specification Notes:

Insertion loss = $0.06 \times \sqrt{\text{FGHz}}$ dB

SMP Male Right Angle Engineering Grade Full Detent Connector Solder Attachment Thru Hole PCB



PE48097

Mechanical Specifications

Size

Length	0.283 in [7.19 mm]
Width	0.163 in [4.14 mm]
Height	0.275 in [6.99 mm]
Weight	0.05 lbs [22.68 g]
Mating Cycles	100 Cycles
Engagement Force	15lbs [6.8kg]
Disengagement Force	5lbs [2.27kg]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel-Phosphorus Alloy over Copper
Insulation	PTFE	
Body	Beryllium Copper	Copper-Tin-Zinc Alloy

Environmental Specifications

Temperature

Operating Range	-55 to +165 deg C
Humidity	MIL-STD-202, Method 106
Thermal Shock	MIL-STD-202, Method 107, Condition B
Salt Spray	MIL-STD-202, Method 101, Condition B

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

Plotted and Other Data

Notes:

SMP Male Right Angle Engineering Grade Full Detent Connector Solder Attachment Thru Hole PCB 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: [SMP Male Right Angle Engineering Grade Full Detent Connector Solder Attachment Thru Hole PCB PE48097](#)

URL: <https://www.pasternack.com/smp-male-full-detent-thru-hole-pcb-connector-pe48097.html>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE48097 CAD Drawing

SMP Male Right Angle Engineering Grade Full Detent Connector Solder Attachment Thru Hole PCB

