



SMP Male Smooth Bore Connector Solder Attachment Surface Mount PCB, with 2 Ground Posts

RF Connectors Technical Data Sheet

PE44944

Configuration

- Smooth Bore SMP Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: Surface Mount

Features

- Max. Operating Frequency 18 GHz
- Excellent VSWR of 1.15:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204
- Blind Mate Connector

Applications

- General Purpose Test
- PCB Applications

Description

Pasternack's PE44944 SMP male smooth bore connector with solder attachment for Surface Mount 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 excellent VSWR of 1.15:1. 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 PE44944 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			1.15:1	
Insertion Loss			0.13	dB
Dielectric Withstanding Voltage (AC)			500	Vrms
High Potential Voltage @ 5 MHz			325	Vrms
Corona Discharge @ 70,000 feet			125	Vrms
Inner Conductor DC Resistance			6	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Male Smooth Bore Connector Solder Attachment Surface Mount PCB, with 2 Ground Posts PE44944](#)



SMP Male Smooth Bore Connector Solder Attachment
Surface Mount PCB, with 2 Ground Posts

RF Connectors
Technical Data Sheet

PE44944

Mechanical Specifications

Size

Length	0.24 in [6.1 mm]
Width/Dia.	0.22 in [5.59 mm]
Weight	0.002 lbs [0.91 g]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold MIL-G-45204
Insulation	PAI	
Body	Beryllium Copper	Gold MIL-G-45204

Environmental Specifications

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

Plotted and Other Data

Notes:

SMP Male Smooth Bore Connector Solder Attachment Surface Mount PCB, with 2 Ground Posts 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 Smooth Bore Connector Solder Attachment Surface Mount PCB, with 2 Ground Posts PE44944](#)

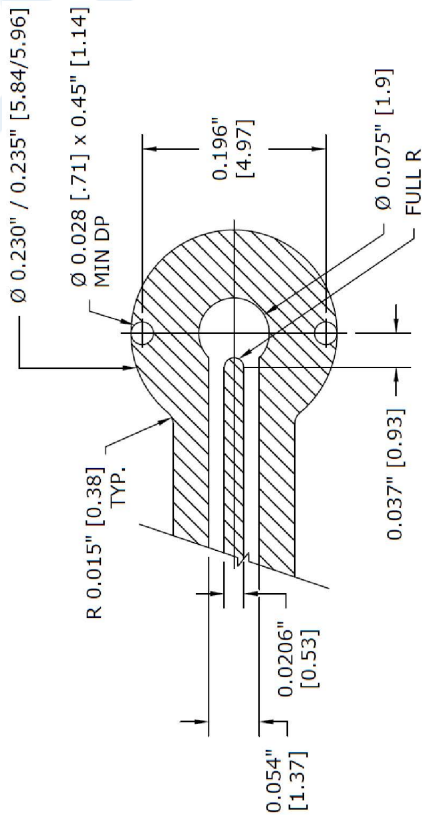
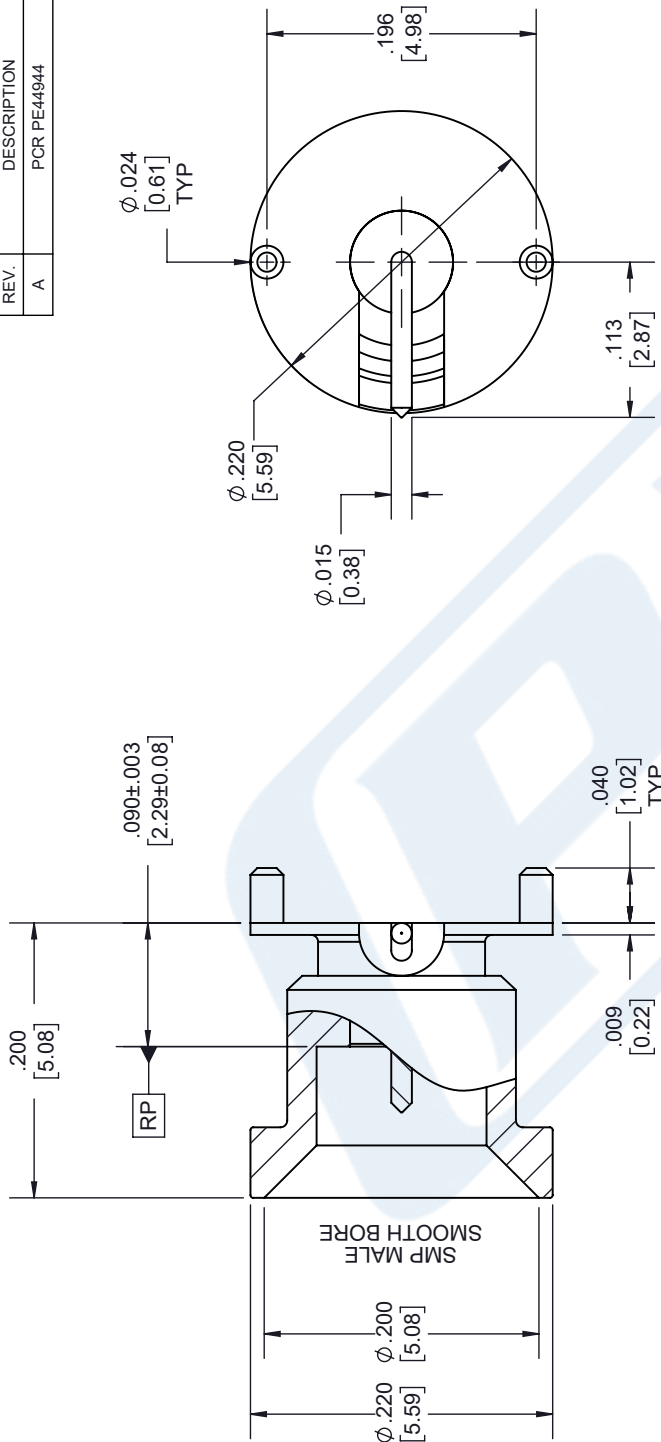
URL: <https://www.pasternack.com/smp-male-smooth-bore-surface-mount-pcb-connector-pe44944-p.aspx>

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.

PE44944 CAD Drawing

SMP Male Smooth Bore Connector Solder Attachment
Surface Mount PCB, with 2 Ground Posts

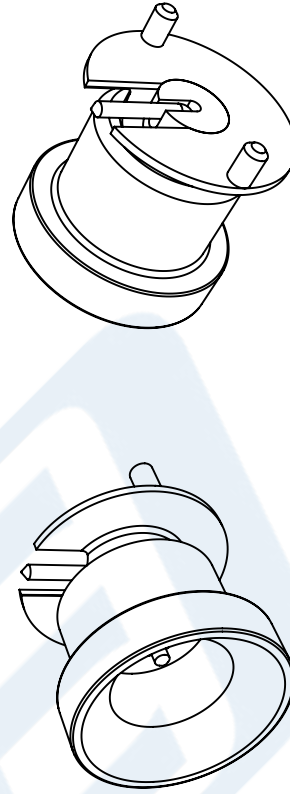
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PCR PE44944	10/7/2020	S. ELLIS



LANDING PATTERN

* THE ABOVE DIMENSIONS ARE GUIDELINES ONLY FOR LANDING PATTERN. CHANGES MAY BE REQUIRED DUE TO DIFFERENT BOARD MATERIALS, PROCESSES, TYPE OF BRAZE, SOLDER OR EPOXY.

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS, DIVERSION CONTRARY TO U.S. LAW PROHIBITED.



THIRD-ANGLE PROJECTION THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.		SHEET 1 OF 1		SCALE N/A		REV A	
PE PASTERNAK an INFINITE brand Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com		ITEM NO. PE44944		SIZE A		DRAWN BY K.DANG	
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: X = ±.2 [5.08] FRACTIONS .XX = ±.02 [.51] ANGLES ± 1° .XXX = ±.005 [.13] ANGLES ± 1° CABLE LENGTH (L) TOLERANCES: 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 ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		REV A		ITEM NO. PE44944		SIZE A	