

SMA Female Bulkhead Mount Hermetically Sealed Connector Solder Attachment Terminal with Kovar Seal, Stainless Steel body

PE1959



Configuration

- SMA Female Connector
- 50 Ohms
- Straight Body Geometry
- Bulkhead

Features

- Max. Operating Frequency 18 GHz
- Excellent VSWR of 1.2:1
- Gold over Nickel over Copper Plated Beryllium Copper Contact
- Hermetically Sealed
- Kovar Glass Bead

Applications

- General Purpose Test
- Rack and Panel Mount Applications

Description

Pasternack's PE1959, SMA, Standard, connector with solder/solder attachment terminal is part of our full line of RF components available for same-day shipping. Our SMA female connector operates up to a maximum frequency of 18 GHz and offers excellent VSWR of 1.2:1. This SMA bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our SMA female bulkhead connector PE1959 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			1.2:1	
Insertion Loss			0.169	dB
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

Mechanical Specifications

Size

Length	0.67 in [17.02 mm]
Width	0.44 in [11.18 mm]
Height	0.44 in [11.18 mm]
Weight	0.02 lbs [9.07 g]
Mating Cycles	500 Cycles
Mating Torque	7 to 9.5 in-lbs [[0.79 to 1.07 Nm]]
Cable Retention Force	6.1 lbs [2.77 kg]

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Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel over Copper
Insulation	PTFE	
Body	Stainless Steel	Gold over Nickel over Copper
Gasket	Silicone	

Mechanical Specification Notes:
1x10⁻⁸ cc/sec at 1ATM of Helium

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

Humidity

MIL-STD-202, Method106

Thermal Shock

MIL-STD-202, Method107, Condition B

Salt Spray

MIL-STD-202, Method101, Condition B

Hermetic Seal

1*10⁻⁸ cc/sec of HELIUM at 1 ATM

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

Plotted and Other Data

Notes:

SMA Female Bulkhead Mount Hermetically Sealed Connector Solder Attachment Terminal with Kovar Seal, Stainless Steel body 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: [SMA Female Bulkhead Mount Hermetically Sealed Connector Solder Attachment Terminal with Kovar Seal, Stainless Steel body PE1959](#)

URL: <https://www.pasternack.com/sma-female-terminal-connector-pe1959-p.aspx>

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.

PE1959 CAD Drawing

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