

Mini SMP Female Connector Solder Attachment for PE-047SR, PE-P047, PE-P047LL, PE- SR047AL, PE-SR047FL, .047 Semi-Rigid



PE51282

Configuration

- Mini SMP Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-047SR, PE-P047, PE-P047LL, PE-SR047AL, PE-SR047FL, .047 Semi-Rigid

Features

- Max. Operating Frequency 40 GHz
- Good VSWR of 1.4:1
- Gold over Nickel Plated Beryllium Copper Contact
- Blind Mate Connector

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE51282 , Mini SMP, Standard, Connector is part of our full line of RF components available for same-day shipping. Our Mini SMP female connector operates up to a maximum frequency of 40 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 Mini SMP female connector PE51282 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		40	GHz
VSWR			1.4:1	
Insertion Loss			0.632	dB
Dielectric Withstanding Voltage (DC)			325	Vdc
Inner Conductor DC Resistance			6	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

Electrical Specification Notes:

Insertion loss is = $0.1 \cdot \sqrt{F(\text{GHz})}$ dB

Mechanical Specifications

Size

Length	0.108268 in [2.75 mm]
Width	0.108268 in [2.75 mm]
Height	0.38189 in [9.7 mm]
Weight	0.015 lbs [6.8 g]
Cable Retention Force	1.5 lbs [680.39 g]
Engagement Force	5lbs [2.27kg]

Mini SMP Female Connector Solder Attachment for PE-047SR, PE-P047, PE-P047LL, PE- SR047AL, PE-SR047FL, .047 Semi-Rigid



PE51282

Disengagement Force	1.5lbs [680.39g]
---------------------	------------------

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel
Insulation	PEI	
Body	Beryllium Copper	Gold over Nickel

Mechanical Specification Notes:
Mating cycles: 1000 (smooth bore), 100 (full detent) minimum.

Environmental Specifications

Temperature	
Operating Range	-40 to +165 deg C
Thermal Shock	MIL-STD-202, Method 107, Condition B

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

Plotted and Other Data

Notes:

Mini SMP Female Connector Solder Attachment for PE-047SR, PE-P047, PE-P047LL, PE-SR047AL, PE-SR047FL, .047 Semi-Rigid 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: [Mini SMP Female Connector Solder Attachment for PE-047SR, PE-P047, PE-P047LL, PE-SR047AL, PE-SR047FL, .047 Semi-Rigid PE51282](#)

URL: <https://www.pasternack.com/mini-smp-female-pe-047sr-pe-p047-pe-sr047al-connector-pe51282-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.

PE51282 CAD Drawing

Mini SMP Female Connector Solder Attachment for PE-047SR, PE-P047, PE-P047LL, PE-SR047AL, PE-SR047FL, .047 Semi-Rigid

