

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

### PE51281

#### 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 18 GHz
- Excellent VSWR of 1.2:1
- Gold over Nickel Plated Beryllium Copper Contact
- Blind Mate Connector

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE51281 , 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 18 GHz and offers excellent VSWR of 1.2:1. 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 PE51281 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			0.424	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	0.285433 in [7.25 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

### PE51281

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

#### Material Specifications

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

#### Mechanical Specification Notes:

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

#### Environmental Specifications

##### Temperature

Operating Range

-65 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 PE51281](#)

URL: <https://www.pasternack.com/mini-smp-female-pe-047sr-pe-p047-pe-sr047al-connector-pe51281-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.

PE51281 CAD Drawing

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

