



## SMA Female Precision Connector Clamp/ Solder Attachment for PE-P142LL

### RF Connectors Technical Data Sheet

PE44814

#### Configuration

- SMA Female Connector
- 50 Ohms
- Straight Body Geometry
- PE-P142LL Interface Type
- Clamp/Solder Attachment
- Precision Design

#### Features

- Max. Operating Frequency 26.5 GHz
- Excellent VSWR of 1.18:1
- Gold over Nickel Plated Beryllium Copper Contact
- 50 µin minimum contact plating

#### Applications

- General Purpose Test
- Precision Test & Measurement
- Custom Cable Assemblies

#### Description

Pasternack's PE44814 SMA female precision connector with clamp/solder attachment for PE-P142LL 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 26.5 GHz and offers excellent VSWR of 1.18:1.

Our SMA female connector PE44814 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		26.5	GHz
VSWR			1.18:1	
Insertion Loss			0.26	dB
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
High Potential Voltage 5 to 7.5 MHz			670	Vrms
Corona Discharge at 70,000 ft			250	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage	90			dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Precision Connector Clamp/Solder Attachment for PE-P142LL PE44814](#)



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#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 18	18 to 22	22 to 26.5			GHz
VSWR, Max	1.14:1	1.16:1	1.18:1			

Electrical Specification Notes:  
Insertion loss:  $0.05 \times \sqrt{f(\text{GHz})}$  dB max.

#### Mechanical Specifications

##### Size

Length	1.26 in [32 mm]
Width/Dia.	0.37 in [9.40 mm]
Weight	0.022 lbs [9.98 g]

#### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel 50 $\mu$ in minimum
Insulation	PTFE	
Body	Passivated Stainless Steel	SAE-AMS-2700

#### Environmental Specifications

##### Temperature

Operating Range	-65 to +165 deg C
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