



# 50 Ohm BNC Medium Power Noise Source With A Noise Output ENR Of 15 dB From 0.01 MHz to 2 GHz

## Noise Generators Technical Data Sheet

PE85N1019

### Features

- 10 kHz to 2 GHz Frequency Range
- Output Noise ENR 15 dB min
- Flatness 1.5 dB typ
- 28 VDC Operation
- Small Size 1.25" by 0.75" by 0.50"

### Applications

- Measure Noise Figure
- Signal Strength Calibrators
- Radar
- Jamming
- SATCOM for BER and NF
- Source of Jitter

### Description

The PE85N1019 is a coaxial Noise Source with 15 dB min of Output Noise ENR. The Unit features flatness better than +/- 1.5 dB over the frequency range 10 kHz to 2 GHz. The unit has an BNC Female DC Input Connector and an SMA Female RF Output Connector. Standard operation is from +28 Vdc with a 20 mA maximum current draw. The Noise Source ideal for noise figure measurements and built in test applications. The unit features a small profile housing of 1.25" by 0.75" by 0.50" excluding connectors, ideal when space is at a premium.

### Electrical Specifications

#### RF Characteristics

Description	Minimum	Typical	Maximum	Units
Frequency Range	10KHz		2	GHz
Impedance		50		Ohms
Output ENR	15			dB
Flatness		±1.5		dB
VSWR			1.25:1	
Output Variation vs Input Voltage			0.1	dB/%V
Output Variation vs Temperature			0.01	dB/deg C
Bias Voltage 1		28		Volts
Input Current 1			20	mA
Calibration Points		10, 100, 1000, and 2000 MHz		

### Mechanical Specifications

#### Size

Length	1.25 in [31.75 mm]
Width/Dia.	0.75 in [19.05 mm]
Height	0.5 in [12.7 mm]

Package Type Connectorized Module

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 Ohm BNC Medium Power Noise Source With A Noise Output ENR Of 15 dB From 0.01 MHz to 2 GHz PE85N1019](#)



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**Connectors**

DC Connector  
Output Connector

BNC Female  
SMA Male

**Environmental Specifications**

**Temperature**

Operating Range  
ESD Sensitivity

-20 to 75 deg C  
ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.



**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

Not RoHS Compliant  
REACH Compliant

01/01/1753

**Plotted and Other Data**

Notes:

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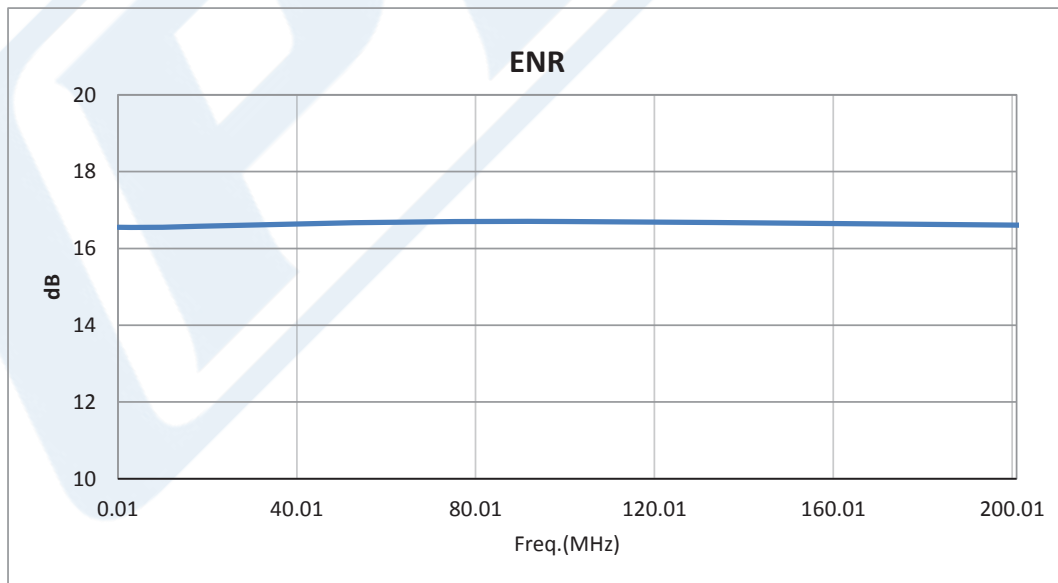
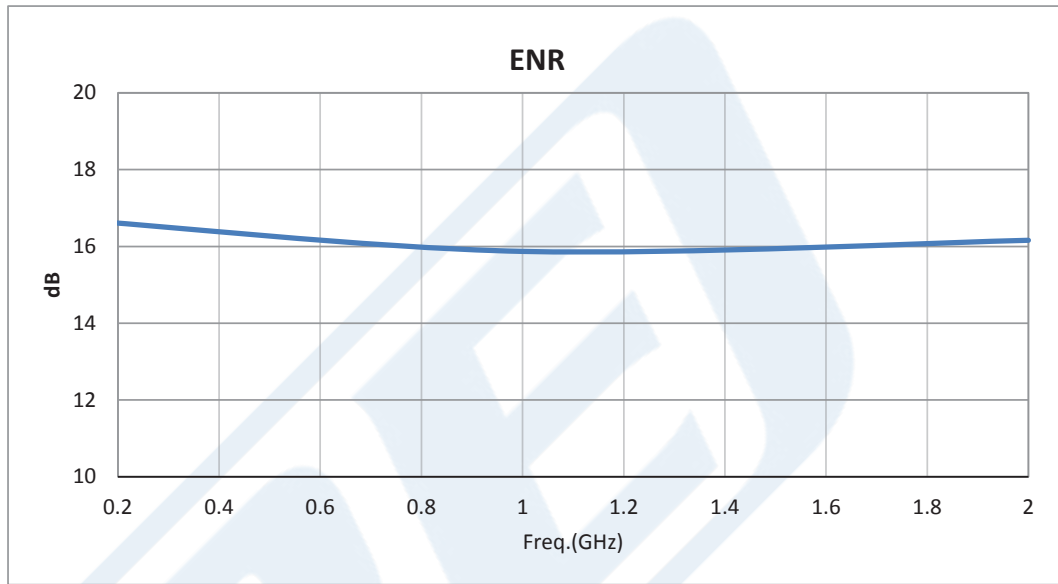


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Typical Performance Data



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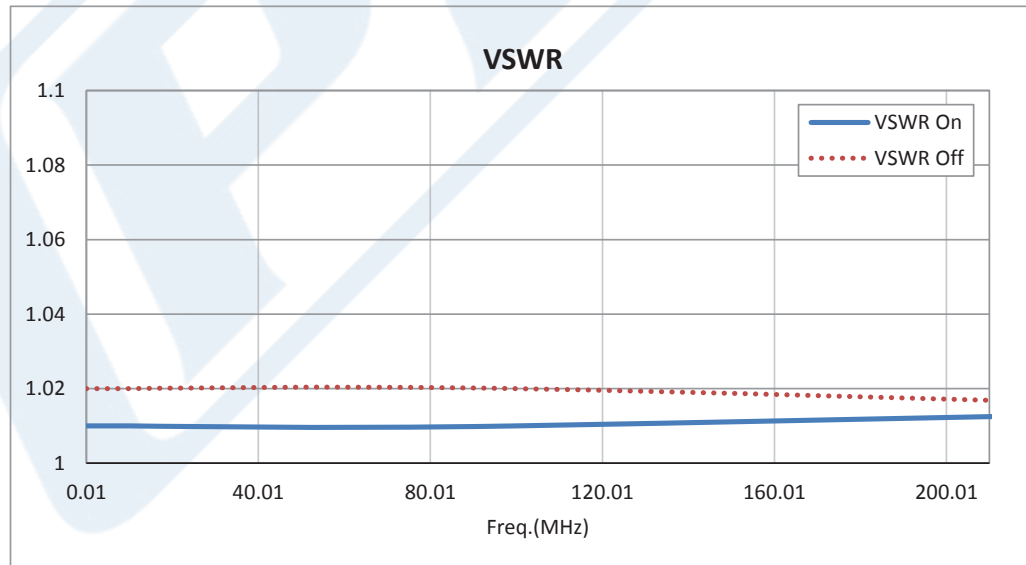
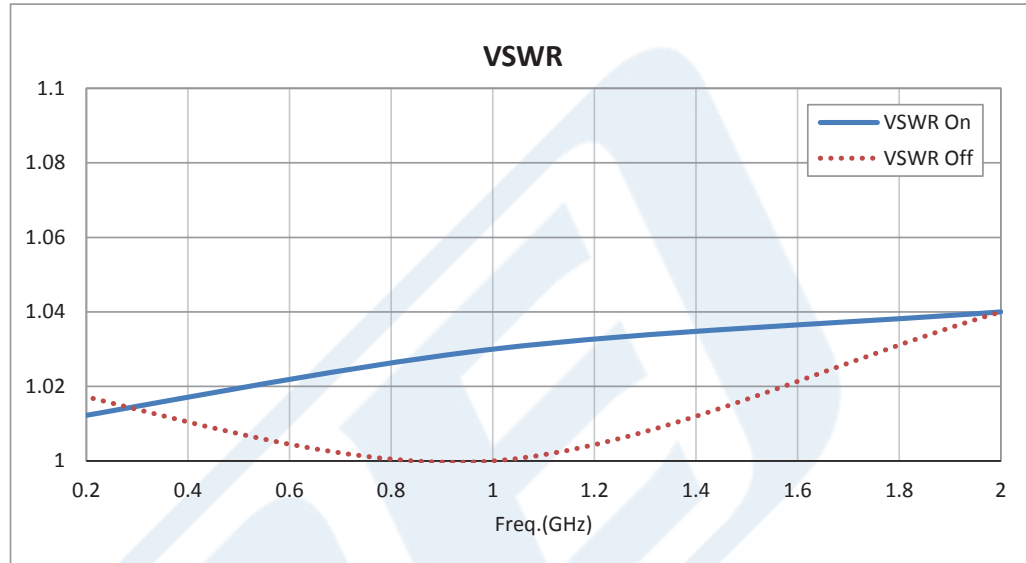




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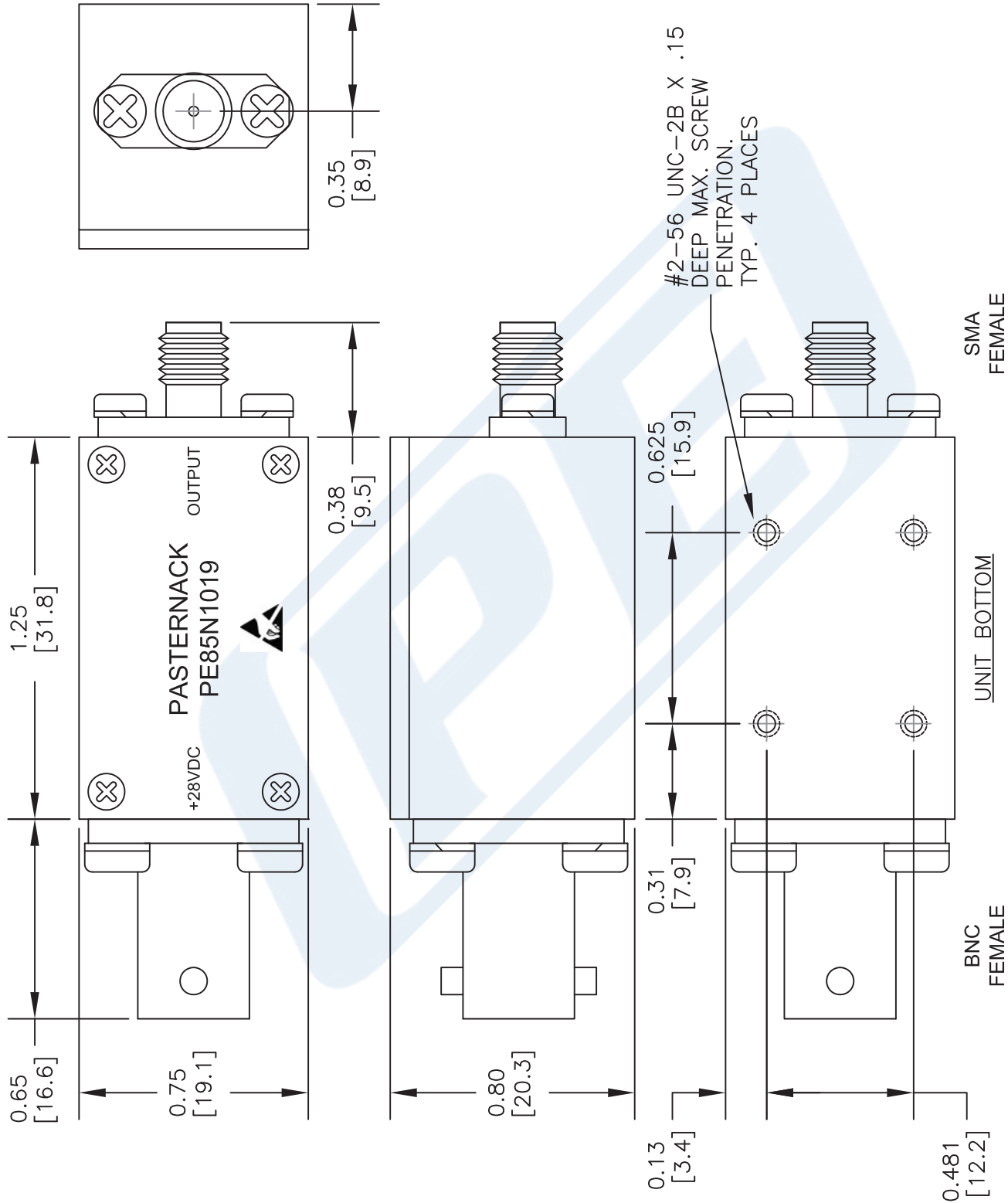




# PE85N1019 CAD Drawing

50 Ohm BNC Medium Power Noise Source With A Noise

Output ENR Of 15 dB From 0.01 MHz to 2 GHz



NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
 3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE  
**PE85N1019**

FSCM NO. 53919

CAD FILE 110515 SCALE N/A SIZE A 2233

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