



50 Ohm BNC Medium Power Noise Source With A Noise Output ENR Of 17 dB From 10 MHz to 26 GHz

Noise Generators Technical Data Sheet

PE85N1007

Features

- 10 MHz to 18 GHz Frequency Range
- Output Noise ENR 13 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 PE85N1007 is a coaxial Noise Source with 13 dB min of Output Noise ENR. The Unit features flatness better than +/- 1.5 dB over the frequency range 10 MHz to 26 GHz. The unit has an BNC Female DC Input Connector and an 3.5mm 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	0.01		26	GHz
Impedance		50		Ohms
Output ENR	13		17	dB
Flatness		±1.5		dB
Output Variation vs Input Voltage			0.002	dB/%V
Output Variation vs Temperature			0.009	dB/deg C
Bias Voltage 1		28 ±2		Volts
Input Current 1			30	mA
Reverse Power			1	Watts
Calibration Points		10 MHz, every GHz		

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.01 to 5	5 to 18	18 to 26			GHz
VSWR, Typ	1.15:1	1.25:1	1.35:1			

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 17 dB From 10 MHz to 26 GHz PE85N1007](#)



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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
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Connectors

DC Connector	BNC Female
Output Connector	3.5mm Male

Environmental Specifications

Temperature

Operating Range	0 to 55 deg C
Storage Range	-65 to 125 deg C

ESD Sensitivity	ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.
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Compliance Certifications (visit www.Pasternack.com for current document)

Not RoHS Compliant	
REACH Compliant	01/01/1753

Plotted and Other Data

Notes:

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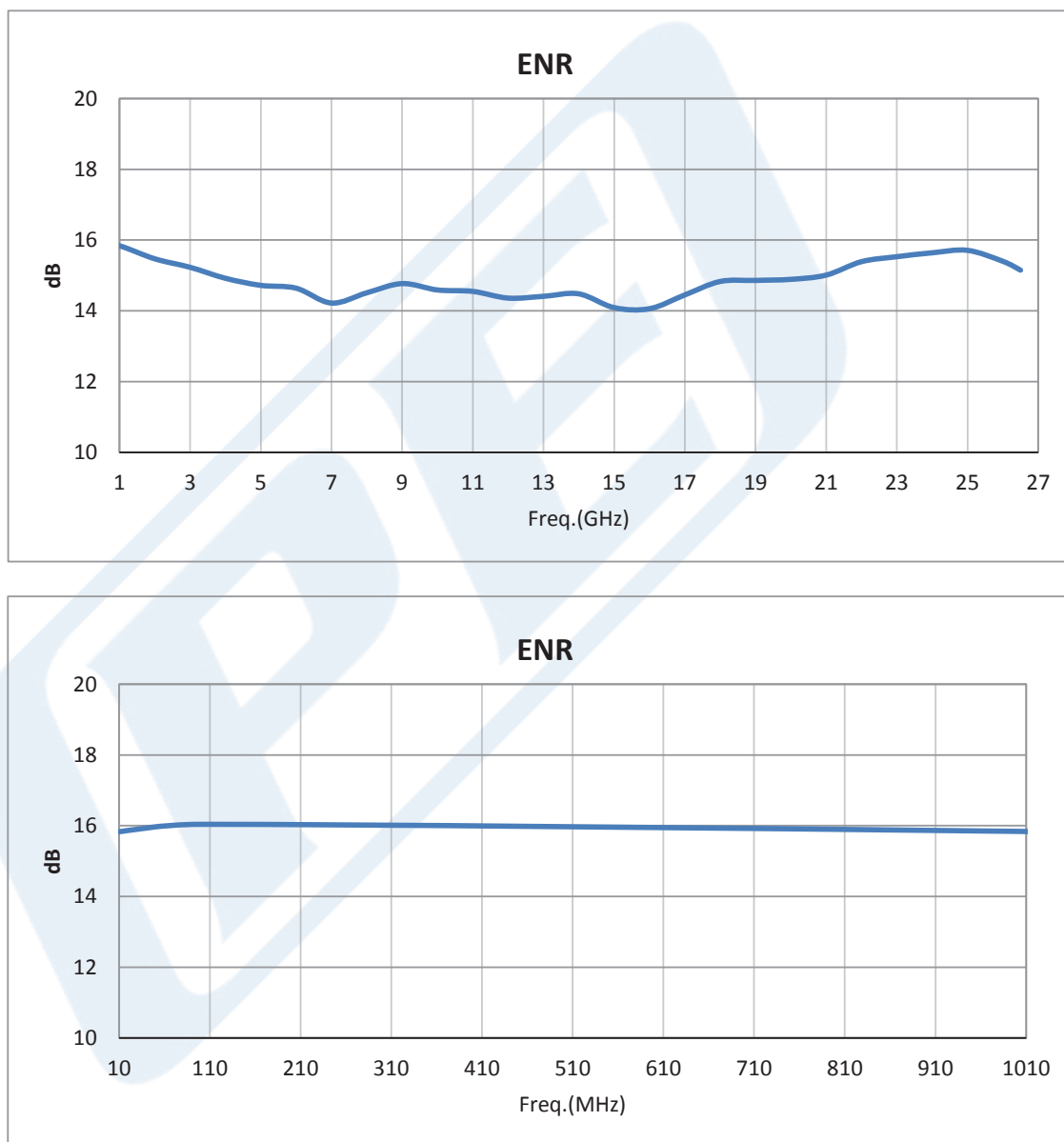


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Typical Performance Data



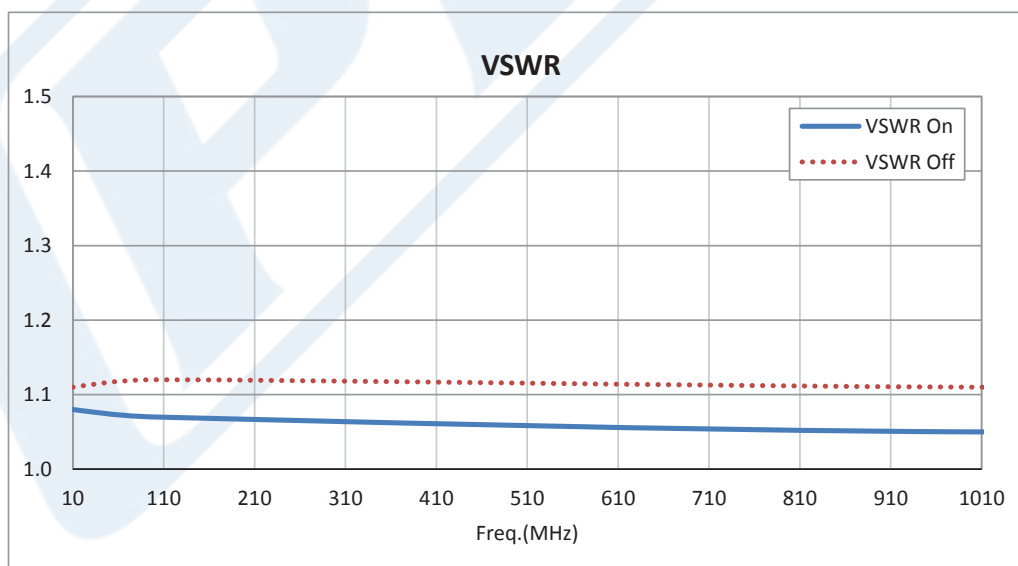
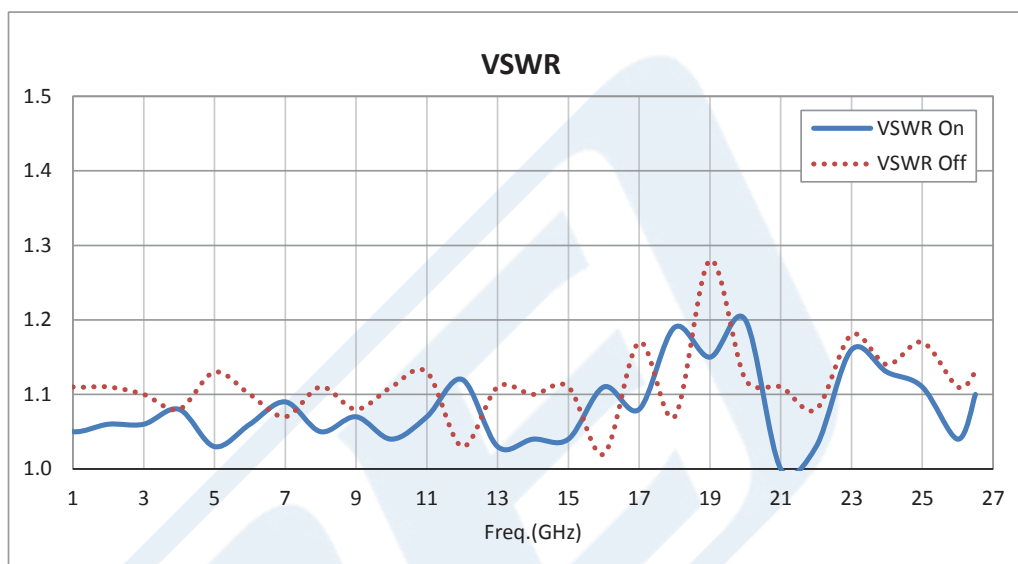
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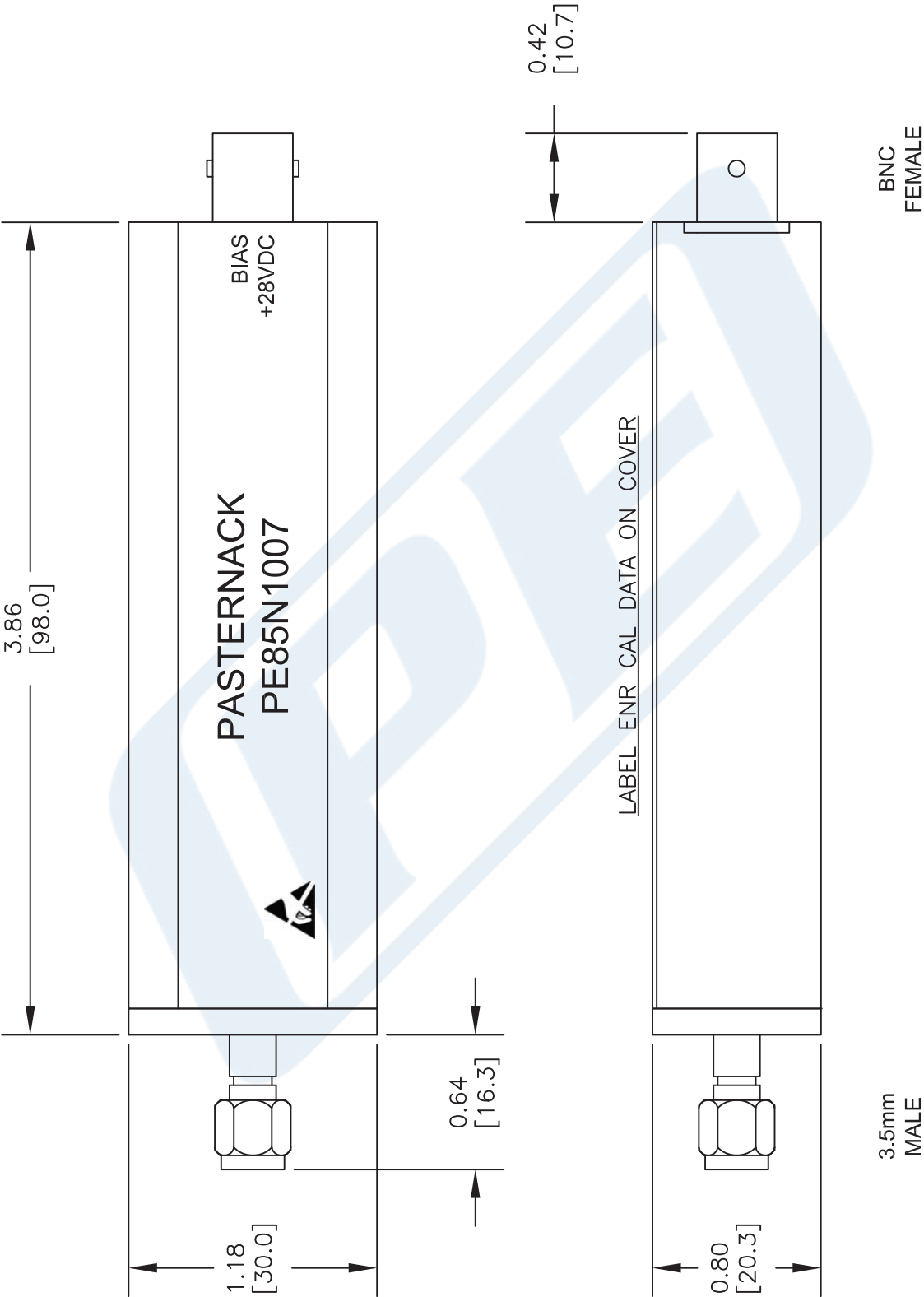
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 Ohm BNC Medium Power Noise Source With A Noise Output ENR Of 17 dB From 10 MHz to 26 GHz PE85N1007](http://www.pasternack.com/50-ohm-sma-noise-source-output-15-db-10-mhz-26-ghz-pe85n1007-p.aspx)

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PE85N1007 CAD Drawing

50 Ohm BNC Medium Power Noise Source With A Noise
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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
PE85N1007

FSCM NO. 53919

2233

PE PASTERNAK
THE ENGINEER'S RF SOURCE

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