



50 Ohm SMA Medium Power Noise Source With A Noise Output ENR Of 15 dB From 10 MHz to 18 GHz

Noise Generators Technical Data Sheet

PE85N1006

Features

- 10 MHz to 18 GHz Frequency Range
- Output Noise ENR 14 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 PE85N1006 is a coaxial Noise Source with 14 dB min of Output Noise ENR. The Unit features flatness better than +/- 1.5 dB over the frequency range 10 MHz to 18 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	0.01		18	GHz
Impedance		50		Ohms
Output ENR	14		16	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				GHz
VSWR, Typ	1.15:1	1.25:1				

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 Ohm SMA Medium Power Noise Source With A Noise Output ENR Of 15 dB From 10 MHz to 18 GHz PE85N1006](#)



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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	SMA 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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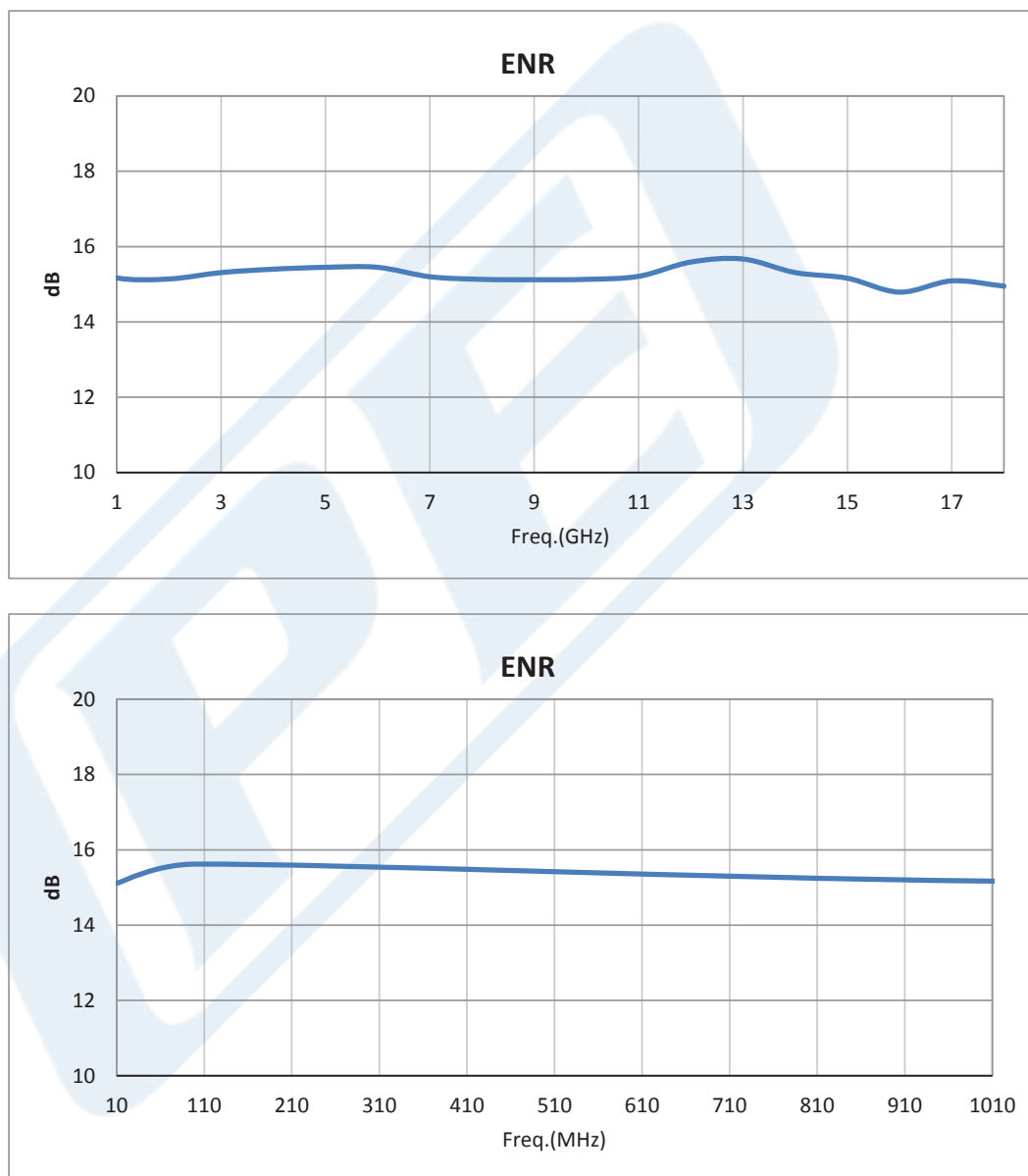


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Typical Performance Data



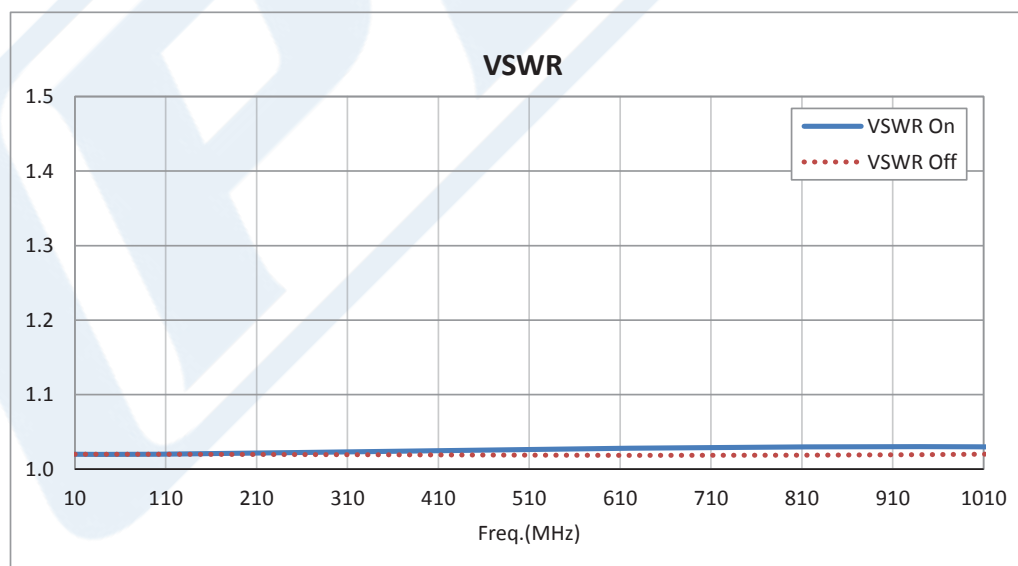
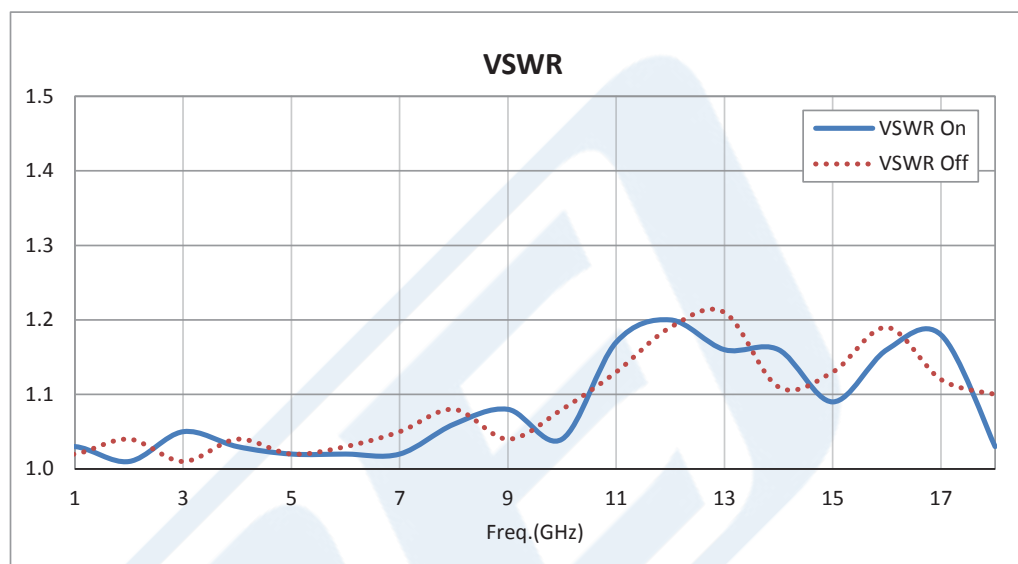
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50 Ohm SMA Medium Power Noise Source With A Noise Output ENR Of 15 dB From 10 MHz to 18 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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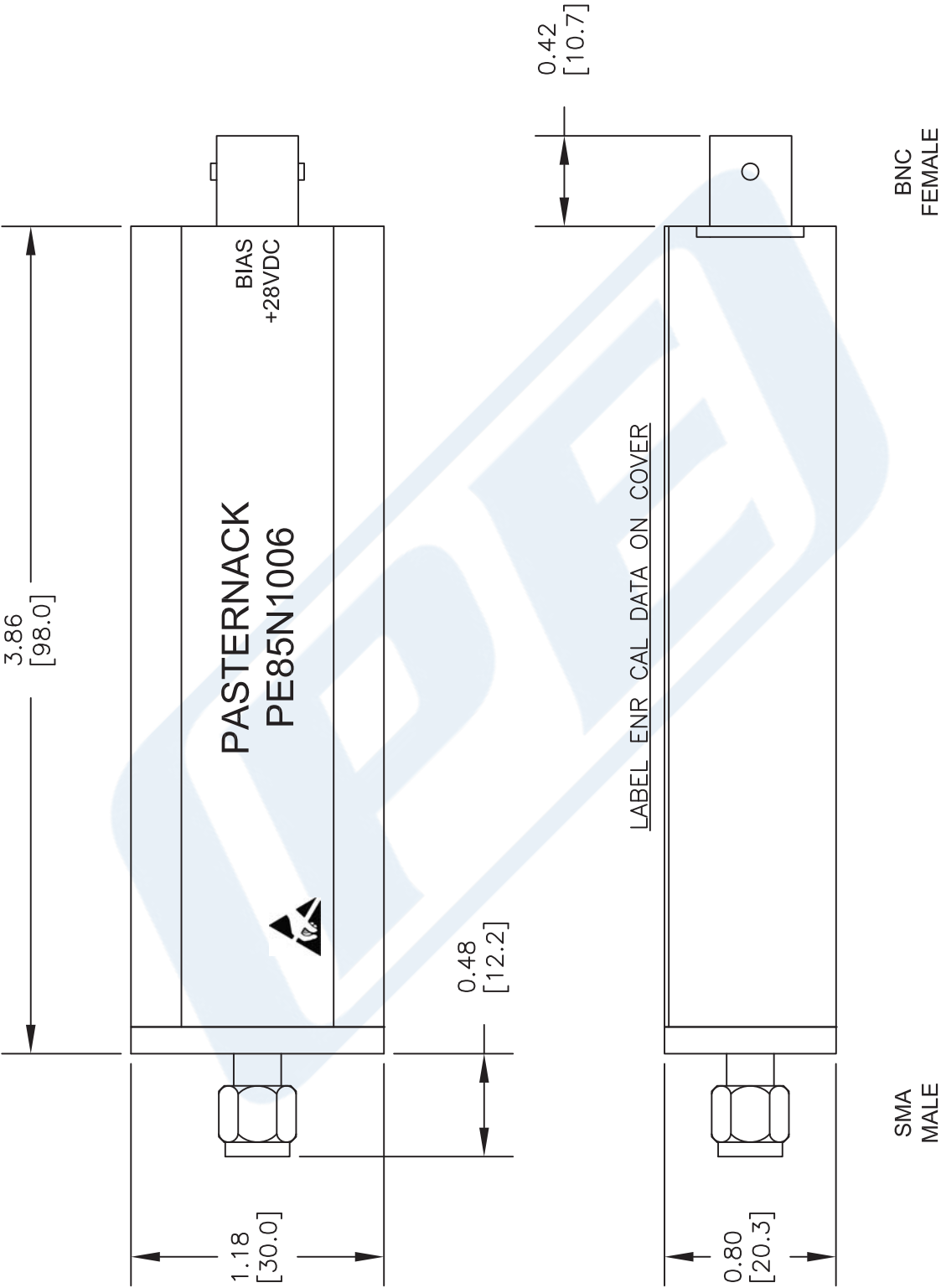
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PE85N1006 CAD Drawing

50 Ohm SMA 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
PE85N1006

FSCM NO. 53919

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