



50 Ohm BNC Medium Power Noise Source With A Noise Output ENR Of 30 dB From 0.01 MHz to 2 GHz

Noise Generators Technical Data Sheet

PE85N1020

Features

- 10 kHz to 2 GHz Frequency Range
- Output Noise ENR 30 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 PE85N1020 is a coaxial Noise Source with 30 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	30			dB
Flatness		±1.5		dB
VSWR			3:1	
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
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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 30 dB From 0.01 MHz to 2 GHz PE85N1020](#)



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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 for current document)

Not RoHS Compliant
REACH Compliant

01/01/1753

Plotted and Other Data

Notes:

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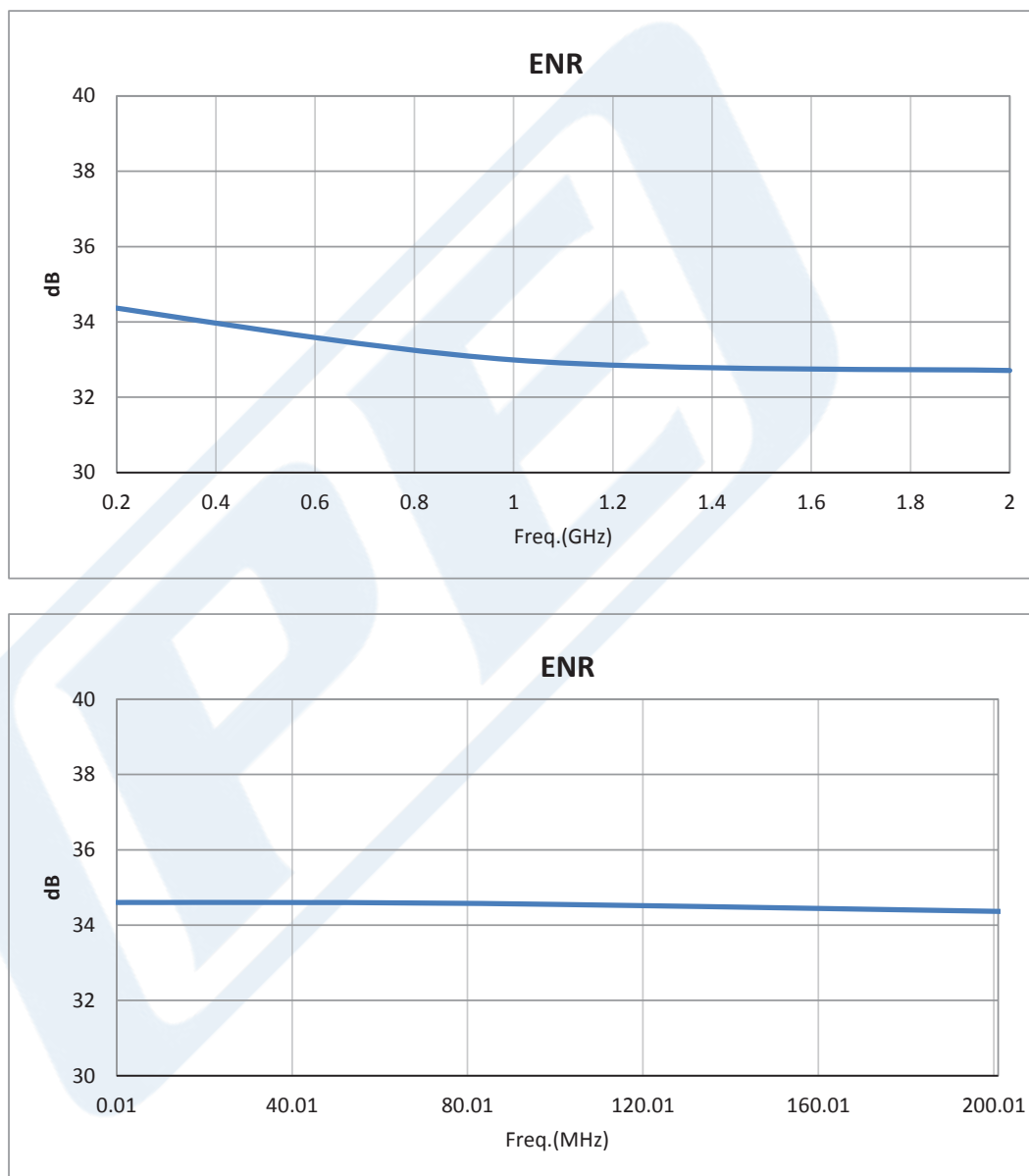


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Typical Performance Data



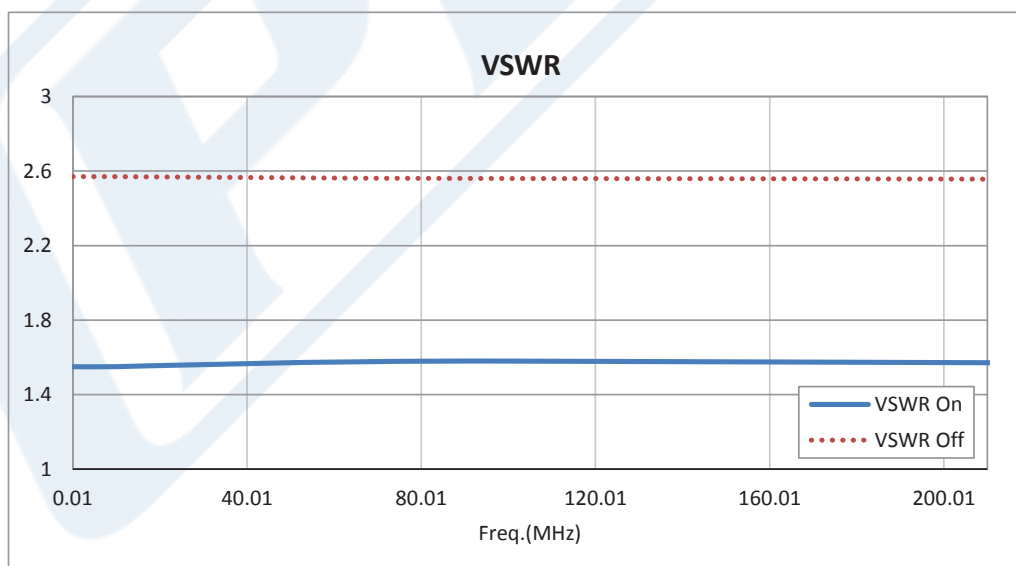
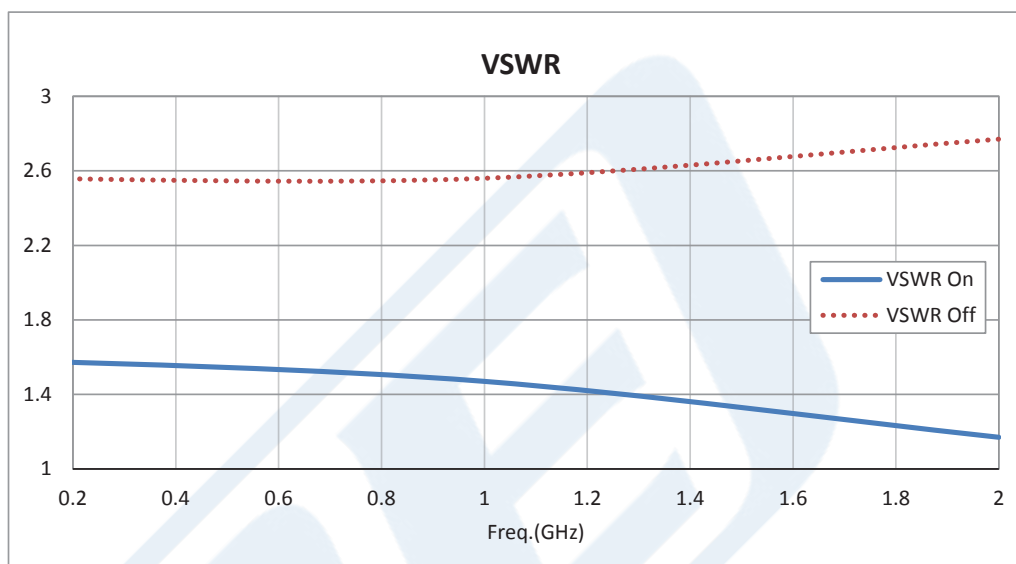
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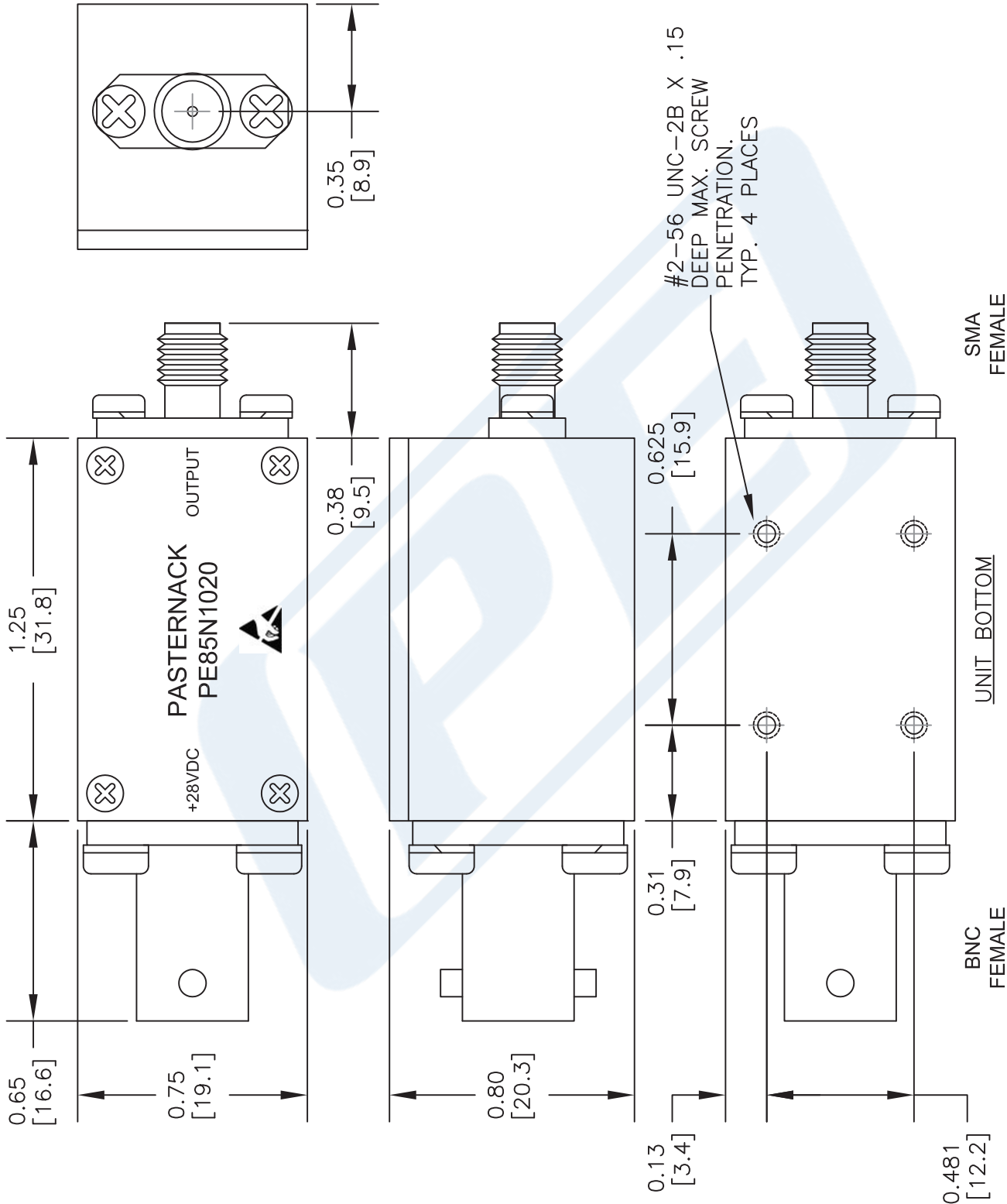


50 Ohm BNC Medium Power Noise Source With A Noise Output ENR Of 30 dB From 0.01 MHz to 2 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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PE85N1020 CAD Drawing

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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
PE85N1020

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CAD FILE 110515

SCALE N/A

SIZE A

2233