PASTERNACK®
THE ENGINEER'S RF SOURCE

50 Ohm SMA Medium Power Noise Source With A Noise Output ENR Of 26 dB From 10 MHz to 6 GHz

Noise Generators Technical Data Sheet PE85N1003

Features

- 10 MHz to 6 GHz Frequency Range
- Output Noise ENR 26 dB min
- Flatness 2.0 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 PE85N1003 is a coaxial Noise Source with 26 dB min of Output Noise ENR. The Unit features flatness better than +/- 2.0 dB over the frequency range 10 MHz to 6 GHz. The unit has an SMA 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		6	GHz
Impedance		50		Ohms
Output ENR	26			dB
Flatness		±2		dB
VSWR		1.75:1		
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			25	mA
Calibration Points		1 GHz Steps		

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 SMA Medium Power Noise Source With A Noise Output ENR Of 26 dB From 10 MHz to 6 GHz PE85N1003

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

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Connectors

DC Connector	SMA Female
Output Connector	SMA Male

Environmental Specifications

Temperature

Operating Range	-55 to 85 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.

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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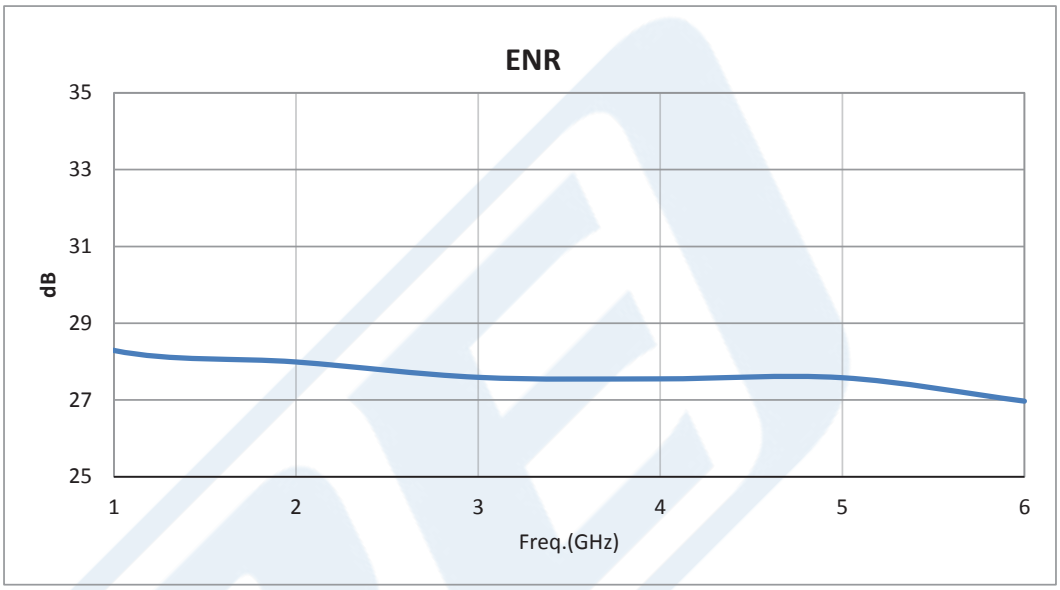
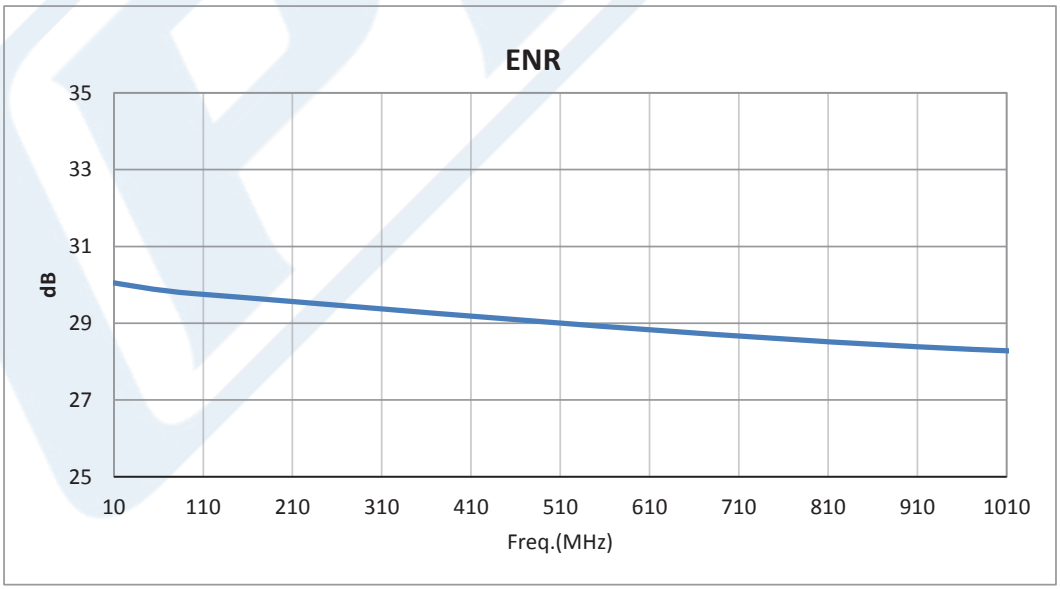
Typical Performance Data





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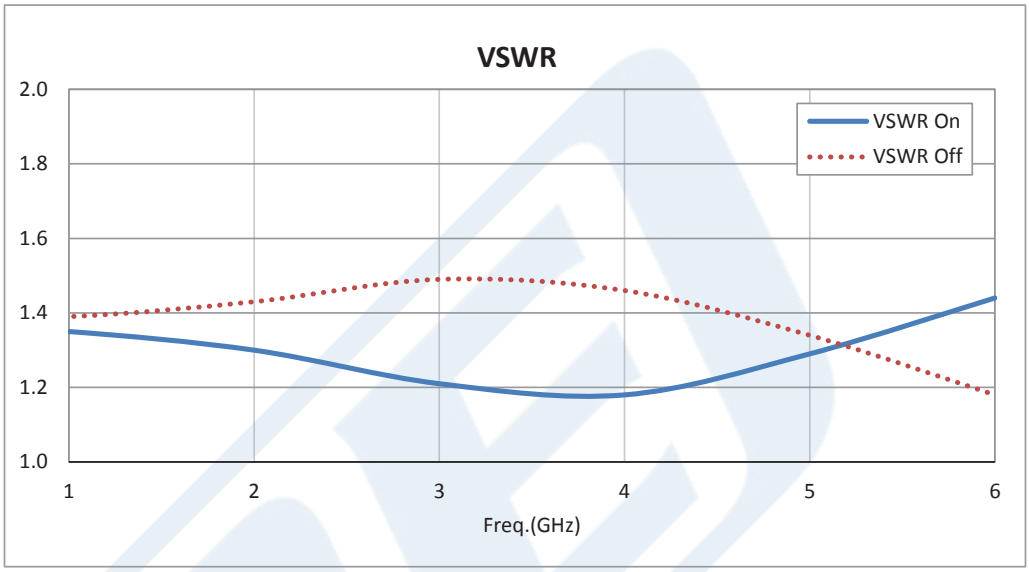

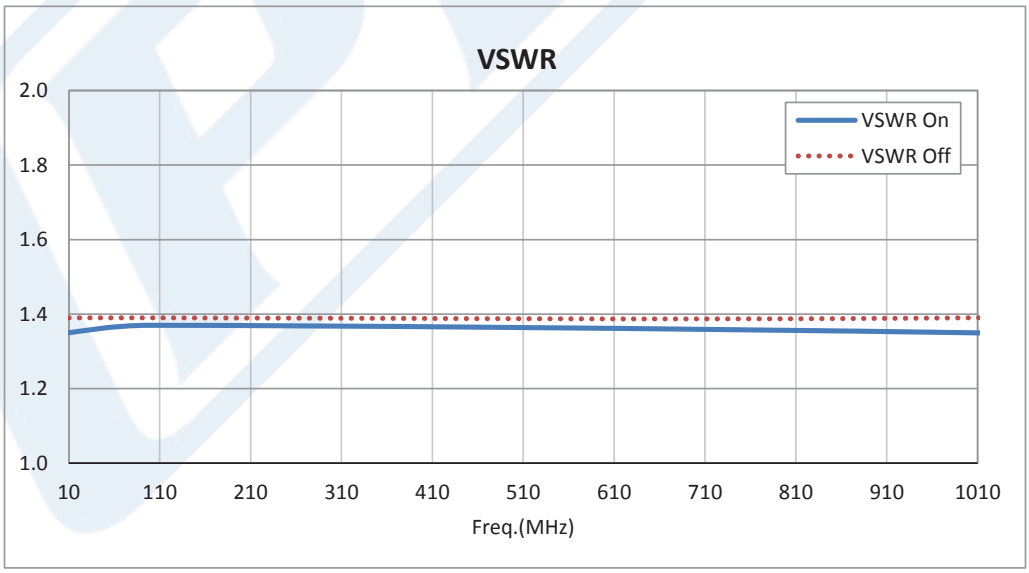

50 Ohm SMA Medium Power Noise Source With A Noise Output ENR Of 26 dB From 10 MHz to 6 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/50-ohm-sma-noise-source-output-26-db-10-mhz-6-ghz-pe85n1003-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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PE85N1003 CAD Drawing

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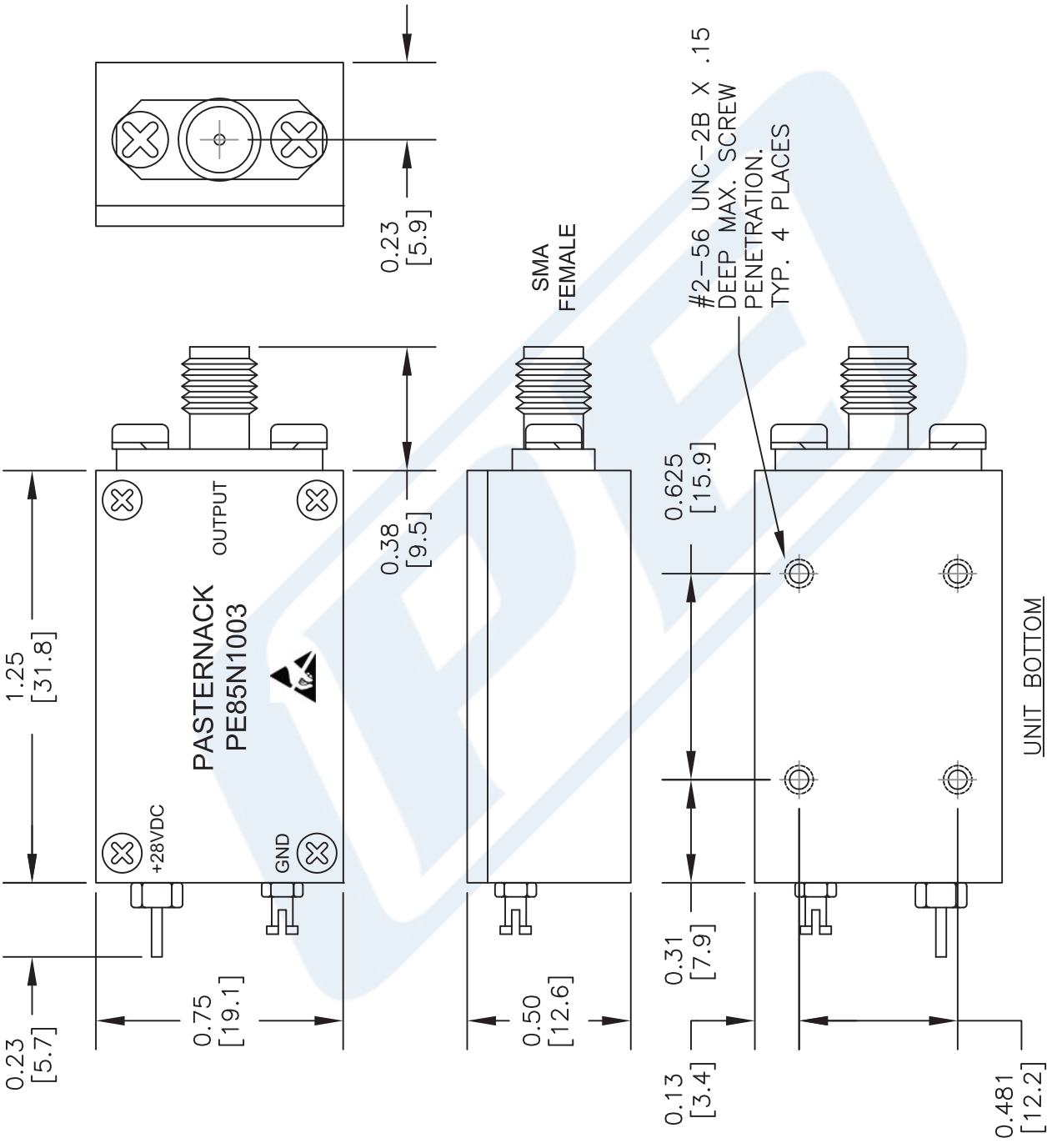

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

CAD FILE	110415	SCALE N/A	SIZE A	2233

DWG TITLE **PE85N1003**

FSCM NO. 53919

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