

SMA Calibrated Noise Source Module, Output ENR of 15 dB, +28 VDC, 10 MHz to 6 GHz



Noise Generators Technical Data Sheet

PE85N1002

Features

- 10 MHz to 6 GHz Frequency Range
- Output Noise ENR 15 dB min
- Flatness 2.0 dB typ

Applications

- Noise Figure Measurements
- Built-In Test equipment for signal strenth calibrators and radar applications
- Automatic Test Equipment (ATE)
- Jamming
- Baseband Signal Simulation
- · Additive White Gausian Noise (AWGN) source for Error Rate Measurements
- 28 VDC Operation Small Size 1.25" by 0.75" by 0.50"
- Internal Voltage Regulation
 - · Increase dynamic range of A/D Converters
 - SATCOM for bit error rate (BER) and noise figure
 - · Can be used as a Jitter source.

Description

The PE85N1002 is a coaxial packaged Noise Source module which operates over a wide frequency range from 10 MHz to 6 GHz. The design is calibrated in 1 GHz steps and is ideal for Noise Figure measurements and a variety of built-in test applications. This model operates at +28 Vdc and features an output ENR level of 15 dB min, typical flatness across the entire frequency band is +/- 2.0 dB, and excellent stability. Performance is specified over -55°C to +85°C with Noise Output Temperature Variation <0.01 dB/°C, Noise Output Variation <0.1 dB/%V. The rugged package design supports an output Female SMA connector with an EMI/RFI filter voltage pin and ground tab. Additionally, the model is designed to meet a variety of demanding MIL-STD-202F environmental test conditions including Humidity, Thermal Shock, and Vibration for added confidence for highly reliable operation.

Electrical Specifications

RF Characteristics

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.01		6	GHz
Impedance		50		Ohms
Output ENR	15			dB
Flatness		±2		dB
VSWR		1.35:1		
Output Variation vs Input Voltage			0.1	dB/%V
Output Variation vs Temperature			0.01	dB/deg C
Bias Voltage 1	22	28	30	Volts
Input Current 1			25	mA
Calibration Points		1 GHz Steps		

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Calibrated Noise Source Module, Output ENR of 15 dB, +28 VDC, 10 MHz to 6 GHz PE85N1002

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

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Mechanical Specifications

Size

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

Weight 0.06 lbs [27.22 g]

Connectorized Module Package Type

Connectors

DC Connector Pin

Output Connector SMA Female

Environmental Specifications

Temperature Operating Range

-55 to +85 deg C Storage Range -65 to +125 deg C

Environment

MIL-STD-202F, Method 103, Cond B (96 hrs@95% Humidity

Shock MIL-STD-202F, Method 213, Cond B (100g, 6 msec)

Vibration MIL-STD-202F, Method 204, Cond B(0.6" 2x ampl or15g) Altitude MIL-STD-202F, Method 105, Condition B (50,000 ft) Temperature Cycle MIL-STD-202F, Method 105C, Condition D (5 cycles)

MIL-STD-202F, Method 107, Conditon A (5 cycles) Thermal Shock

ESD Sensitivity ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.



Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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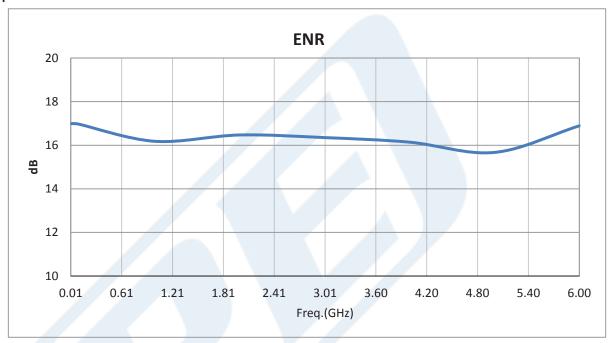
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Typical Performance Data



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SMA Calibrated Noise Source Module, Output ENR of 15 dB, +28 VDC, 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 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/sma-calibrated-noise-source-enr-15-db-6-qhz-pe85n1002-p.aspx

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PE85N1002 CAD Drawing

