



Noise Generators Technical Data Sheet

PE85N1019

Features

- 10 kHz to 2 GHz Frequency Range
- Output Noise ENR 15 dB min
- Flatness 1.5 dB typ

Applications

- Measure Noise Figure
- Signal Strength Calibrators
- Radar
- Jamming

- SATCOM for BER and NF
- Source of Jitter

Description

The PE85N1019 is a coaxial packaged Noise Source module which operates over a wide frequency range from 10 KHz to 2 GHz. The design is calibrated for 10, 100, 1000, and 2000 MHz frequencies and is ideal for Noise Figure measurements and a variety of built-in test applications. This model operates at +28 Vdc and features an ENR level of 15 dB min, typical flatness across the entire frequency band is +/- 0.5 dB, and excellent stability. Performance is specified over -20°C to +75°C with Noise Output Temperature Variation <0.01 dB/°C, Noise Output Variation <0.1 dB/%V. The rugged package design supports an input Female BNC connector for DC biasing, and an Output Female SMA connector. 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.

28 VDC Operation

Small Size 1.25" by 0.75" by 0.50"

Internal Voltage Regulation

Electrical Specifications

RF Characteristics

Description	Minimum	Typical	Maximum	Units
Frequency Range	10KHz		2	GHz
Impedance		50		Ohms
Output ENR	15			dB
Flatness		±1.5		dB
VSWR			1.25:1	
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			20	mA
Calibration Points	10, 100, 1000, and 2000 MHz			

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, 0.01 MHz to 2 GHz PE85N1019

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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PE85N1019

Mechanical Specifications

Size Length

Width/Dia. Height

Weight

Package Type

Connectors DC Connector Output Connector

Environmental Specifications

Temperature Operating Range ESD Sensitivity 1.25 in [31.75 mm] 0.75 in [19.05 mm] 0.5 in [12.7 mm]

0.103 lbs [46.72 g]

Connectorized Module

BNC Female SMA Female

-20 to +75 deg C 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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Typical Performance Data ENR 20 18 16 qВ 14 12 10 0.6 0.8 1.2 0.2 0.4 1 1.4 1.6 1.8 2 Freq.(GHz) **ENR** 20 18 16 B 14 12 10 0.01 40.01 80.01 120.01 160.01 200.01 Freq.(MHz)

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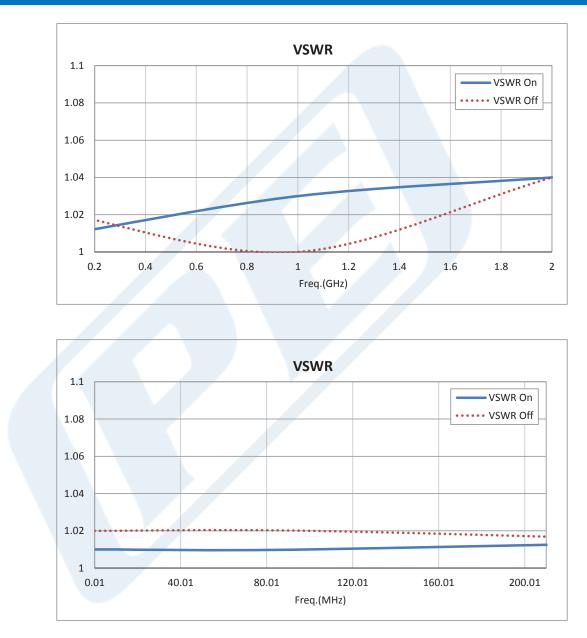
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SMA Calibrated Noise Source Module, Output ENR of 15 dB, +28 VDC, 0.01 MHz to 2 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability 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-2-ghz-pe85n1019-p.aspx

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PE85N1019 CAD Drawing

SMA Calibrated Noise Source Module, Output ENR of 15 dB, +28 VDC, 0.01 MHz to 2 GHz

