

SMA Calibrated Noise Source Module, Output ENR of 30 dB, +28 VDC, 2 GHz to 4 GHz



Noise Generators Technical Data Sheet

PE8506

Features

- 2 to 4 GHz Frequency Range
- Calibrated in 1 GHz Steps
- · High Output ENR 30 to 35 dB
- Flatness ±1 dB

Applications

- Noise Figure Measurements
- Built-In Test Equipment (BITE)
- Automated Test Equipment (ATE)
- Jamming

Baseband Signal Simulation

+28 VDC OperationSMA Female Voltage Bias

SMA Male Output

- Additive White Gaussian Noise (AWGN) Source for Error Rate Measurements
- SATCOM Bit Error Rate (BER) and Noise Figure Measurements
- Jitter Source

Description

The PE8506 is a calibrated noise source module (also known as a noise generator) which operates over a wide frequency range from 2 to 4 GHz. Pasternack's noise source design is calibrated in 1 GHz increments and is ideal for noise figure measurements and a variety of built-in test applications. This noise source model operates at +28 Vdc and features a high output excess noise ratio (ENR) level of 30 to 35 dB. Typical flatness across the entire frequency band is ±1 dB. The package design supports an input SMA female connector for DC biasing, and an output SMA male connector.

Electrical Specifications

RF Characteristics

Minimum	Typical	Maximum	Units
2		4	GHz
	50		Ohms
30		35	dB
	±1		dB
		0.1	dB/%V
		0.01	dB/deg C
	28		Volts
	10	25	mA
		1	μs
1 GHz increments			
	2	2 50 30 ±1 28 10	2 4 50 30 35 ±1 0.1 0.01 28 10 25 1

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 30 dB, +28 VDC, 2 GHz to 4 GHz PE8506

ISO 9001 : 2008 Registered

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Mechanical Specifications

Size

Lenath 2.84 in [72.14 mm] Width/Dia. 0.5 in [12.7 mm] Height 0.5 in [12.7 mm] 0.075 lbs [34.02 g] Weight

Connectors

SMA Female DC Connector SMA Male **Output Connector**

Environmental Specifications

Temperature

Operating Range -55 to +85 deg C

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant

REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

SMA Calibrated Noise Source Module, Output ENR of 30 dB, +28 VDC, 2 GHz to 4 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: https://www.pasternack.com/high-output-noise-generators-2-4-ghz-pe8506-p.aspx

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PE8506 CAD Drawing

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