PASTERNACK®
THE ENGINEER'S RF SOURCE

SMA Amplified Noise Source Module, Output Pout of -14 dBm, +15 VDC, 10 MHz to 6 GHz

Noise Generators Technical Data Sheet PE85N1013

Features

- 10 MHz to 6 GHz Bandwidth
- High Crest Factor Design
- Output Power: -14 dBm
- Typical Flatness: +/- 2.5 dB
- Noise Power: -112 dBm/Hz
- SMA Female Output Connector
- Designed to meet MIL-STD-202F environmental test conditions
- Amplified Noise Source
- Internal Voltage Regulation

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
- 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 PE85N1013 is a coaxial packaged Amplified Noise Source module which operates over a wide frequency range from 10 MHz to 6 GHz. The high Crest Factor design generates an output power level of -14 dBm with +/- 2.5 dB typical flatness and is ideal for Bit Error Rate (BER) testing for wireless test applications, as well as for Noise Figure measurements and a variety of built-in test applications. Noise power is -112 dBm/Hz and the temperature coefficient is 0.025 dB/°C. The input voltage is +15 Vdc which is internally regulated and the operational temperature range is -40°C to +100°C. The rugged package 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
Flatness		±2.5		dB
Output Variation vs Temperature		0.025		dB/deg C
Output Power		-14		dBm
Output Power Spectral Density		-112		dBm/Hz
Bias Voltage 1	14	15	18	Volts
Input Current 1			300	mA

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: SMA Amplified Noise Source Module, Output Pout of -14 dBm, +15 VDC, 10 MHz to 6 GHz PE85N1013

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

Length	3.25 in [82.55 mm]
Width/Dia.	0.98 in [24.89 mm]
Height	0.5 in [12.7 mm]
Weight	0.0143 lbs [6.49 g]
Package Type	Connectorized Module

Connectors

DC Connector	Pin
Output Connector	SMA Female

Environmental Specifications

Temperature

Operating Range	-40 to +100 deg C
Storage Range	-55 to +150 deg C

Environment

Humidity	MIL-STD-202F, Method 103, Cond B (96 hrs@95% R.H.)
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)
Thermal Shock	MIL-STD-202F, Method 107, Conditon A (5 cycles)
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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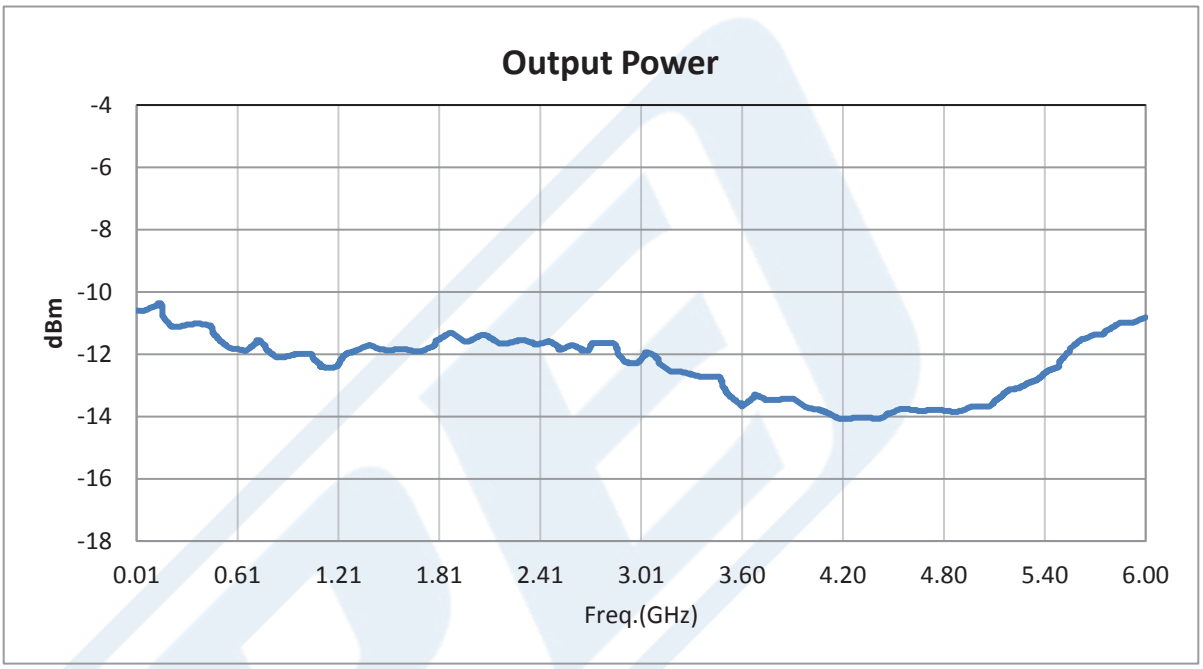
Typical Performance Data



SMA Amplified Noise Source Module, Output Pout of -14 dBm, +15 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-amplified-noise-source-pout-negative-14-dbm-6-ghz-pe85n1013-p.aspx

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PE85N1013 CAD Drawing

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