

SMA Amplified Noise Source Module, Output Pout of 10 dBm, +15 VDC, 0.1 MHz to 500 MHz



Features

- 0.1 MHz to 500 MHz Bandwidth
- High Crest Factor Design
- Output Power: +10 dBm
- Typical Flatness: +/- 1.5 dB
- Noise Power: -77 dBm/Hz

Applications

- Bit Error Rate (BER) Testing for wireless test applications
- Random Jitter source

- SMA Female Output Connector
- Designed to meet MIL-STD-202F environmental test conditions
- Amplified Noise Source
- Internal Voltage Regulation
- Built-In Test equipment for signal strength calibrators and radar applications
- Dithering for increased dynamic range of A/D converters.

PEBSN1010 V001321201511110121

Description

The PE85N1010 is a coaxial packaged Amplified Noise Source module which operates over a wide frequency range from 0.1 MHz to 500 MHz. The high Crest Factor design generates an output power level of +10 dBm with +/- 1.5 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 -77 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 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	0.1		500	MHz
Impedance		50		Ohms
Flatness		±1.5		dB
Output Variation vs Temperature		0.025		dB/deg C
Output Power		10		dBm
Output Power Spectral Density		-77		dBm/Hz
Bias Voltage 1	14	15	18	Volts
Input Current 1			160	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 10 dBm, +15 VDC, 0.1 MHz to 500 MHz PE85N1010

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

PE85N1010





SMA Amplified Noise Source Module, Output Pout of 10 dBm, +15 VDC, 0.1 MHz to 500 MHz

Noise Generators Technical Data Sheet

IS VDC PESSA1010 Not Vog2220151110121

PE85N1010

Mechanical Specifications

Size Length Width/Dia. Height

Weight

Package Type

Connectors DC Connector Output Connector

Environmental Specifications

Temperature Operating Range Storage Range

Environment Humidity

Shock Vibration Altitude Temperature Cycle Thermal Shock ESD Sensitivity



3.25 in [82.55 mm] 0.98 in [24.89 mm] 0.5 in [12.7 mm]

0.149 lbs [67.59 g]

Connectorized Module

Pin SMA Female

-40 to +100 deg C -55 to +150 deg C

MIL-STD-202F, Method 103, Cond B (96 hrs@95% R.H.) MIL-STD-202F, Method 213, Cond B (100g, 6 msec) MIL-STD-202F, Method 204, Cond B(0.6" 2x ampl or15g) MIL-STD-202F, Method 105, Condition B (50,000 ft) MIL-STD-202F, Method 105C, Condition D (5 cycles) MIL-STD-202F, Method 107, Conditon A (5 cycles) 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:

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 10 dBm, +15 VDC, 0.1 MHz to 500 MHz PE85N1010

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



SMA Amplified Noise Source Module, Output Pout of 10 dBm, +15 VDC, 0.1 MHz to 500 MHz

Noise Generators Technical Data Sheet

SVDC PESSNIDIO OD VOJSZVOTSTITIDIZI MARENURA

PE85N1010

Typical Performance Data

SMA Amplified Noise Source Module, Output Pout of 10 dBm, +15 VDC, 0.1 MHz to 500 MHz 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.

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 10 dBm, +15 VDC, 0.1 MHz to 500 MHz PE85N1010

URL: https://www.pasternack.com/sma-amplified-noise-source-pout-10-dbm-500-mhz-pe85n1010-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.

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 PE85N1010 CAD Drawing

SMA Amplified Noise Source Module, Output Pout of 10 dBm, +15 VDC, 0.1 MHz to 500 MHz

