



SMA Calibrated, Integral Isolator Noise Source Module, Output ENR of 30 dB, +28 VDC, 10.7 GHz to 12.7 GHz

Noise Generators Technical Data Sheet

PE85N1016

Features

- 10.7 to 12.7 GHz Bandwidth
- Integral Isolator for improved port matching
- · Very High ENR 30 to 35 dB
- Excellent flatness +/- 0.75 dB max
- Low VSWR 1.3:1 typical
- Extremely Stable Performance

- BNC Voltage Bias and Output Female SMA connectors
- Designed to meet MIL-STD-202F environmental test conditions
- Internal Voltage Regulation

Applications

- High Noise Figure Measurements
- Built-In Test equipment for signal strenth calibrators and radar
- applications
- Automatic Test Equipment (ATE)
- Baseband Signal Simulation
- 802.11ac WiFi.

Description

The PE85N1016 is a coaxial packaged calibrated Noise Source with an integral Isolator which operates over the frequency range of 10.7 GHz to 12.7 GHz. The benefit of the integrated isolator results in improved port matching for more accurate measurements as well as protection of the noise diode from incident RF power. This design features a high output ENR of 30 to 35 dB with excellent flatness of +/- 0.75 dB max, with extremely stable performance over temperature. Ideal for applications that require high ENR and resistance to large incident RF power that may be associated with automated test equipment (ATE), radiometer, and radar systems. The input voltage is +28 Vdc which is internally reguated and the operational temperature range is -20°C to +75°C. The rugged package suports an BNC connector for DC bias 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.

Electrical Specifications

RF Characteristics

Description	Minimum	Typical	Maximum	Units
Frequency Range	10.7		12.7	GHz
Impedance		50		Ohms
Output ENR	30		35	dB
Flatness		±0.75		dB
VSWR			1.3:1	
Bias Voltage 1	22	28	30	Volts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Calibrated, Integral Isolator Noise Source Module, Output ENR of 30 dB, +28 VDC, 10.7 GHz to 12.7 GHz PE85N1016

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Mechanical Specifications

Size

 Length
 2.5 in [63.5 mm]

 Width/Dia.
 1.25 in [31.75 mm]

 Height
 0.81 in [20.57 mm]

Weight 0.11 lbs [49.9 g]

Package Type Connectorized Module

Connectors

DC Connector BNC Female
Output Connector SMA Female

Environmental Specifications

Temperature
Operating Range
Environment
Humidity

Shock Vibration Altitude

Temperature Cycle Thermal Shock ESD Sensitivity -20 to +75 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, Condition 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:

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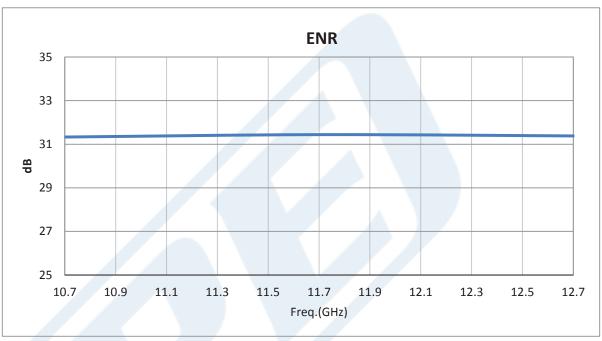


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Typical Performance Data



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SMA Calibrated, Integral Isolator Noise Source Module, Output ENR of 30 dB, +28 VDC, 10.7 GHz to 12.7 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-integral-isolator-noise-source-enr-30-db-12.7-ghz-pe85n1016-p.aspx

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PE85N1016 CAD Drawing

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