



Calibrated Noise Source Module With a Noise Output ENR of 15 dB, and a Voltage of +28 VDC, Operating From 10 MHz to 6 GHz With SMA

FMNG1002 is a coaxial packaged Noise Source module which operates over a wide frequency range from 10 MHz to 6 GHz. The design is calibrated in 1 GHz steps and is ideal for Noise Figure measurements and a variety of built-in test applications. This model operates at +28 Vdc and features an output ENR level of 15 dB min, typical flatness across the entire frequency band is +/- 2.0 dB, and excellent stability. Performance is specified over -55°C to +85°C with Noise Output Temperature Variation <0.01 dB/°C, Noise Output Variation <0.1 dB/%V. 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

Description		Min	Ty	уp	Max	U	nits	
Frequency Range		0.01			6	GHz		
Impedance			5	0		С	hms	
Output ENR		15					dB	
Flatness			±	2			dB	
VSWR			1.3	5:1				
Output Variation vs Input Voltage				0.1	dE	3/%V		
Output Variation vs Tem	perature				0.01	dB,	/deg C	
Bias Voltage 1		22	2	28	30	١	/olts	
Input Current 1					25		mA	
Calibration Points	bration Points 1 GHz Steps							

Mechanical Specifications

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 Length
 1.25 in [31.75 mm]

 Width/Dia.
 0.75 in [19.05 mm]

 Height
 0.5 in [12.7 mm]

 Weight
 0.0625 lbs [28.35 g]

Package Type Connectorized Module

Connectors

DC Connector Pin
Output Connector SMA Female

Environmental Specifications

Temperature

Operating Range -55 to +85 deg C Storage Range -65 to +125 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)

**Esirview Microwave www.farriewmicrowave.com *28 VDC **FMNG1002 OUTPUT V001321F201511080003

Features:

- 10 MHz to 6 GHz Frequency Range
- Output Noise ENR 15 dB min
- Flatness 2.0 dB typ
- 28 VDC Operation
- Small Size 1.25" by 0.75" by 0.50"
- 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.

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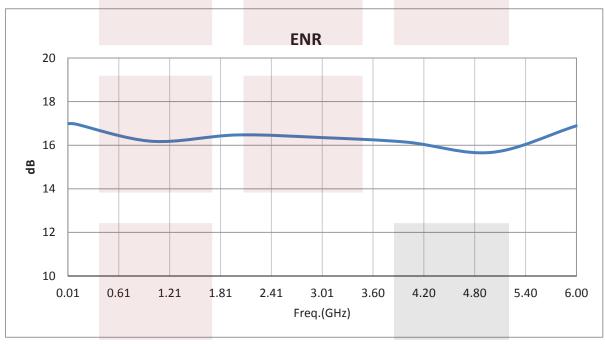


Vibration Altitude Temperature Cycle Thermal Shock ESD Sensitivity MIL-STD-202F, Method 204, Cond B(0.6" 2x ampl or15g)
MIL-STD-202F, Method 105, Condition B (50,000 ft)
MIL-STD-202F, Method 105C, Condition D (5 cycles)
MIL-STD-202F, Method 107, Condition A (5 cycles)
ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.



Compliance Certifications (see product page for current document)









Calibrated Noise Source Module With a Noise Output ENR of 15 dB, and a Voltage of +28 VDC, Operating From 10 MHz to 6 GHz With SMA from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

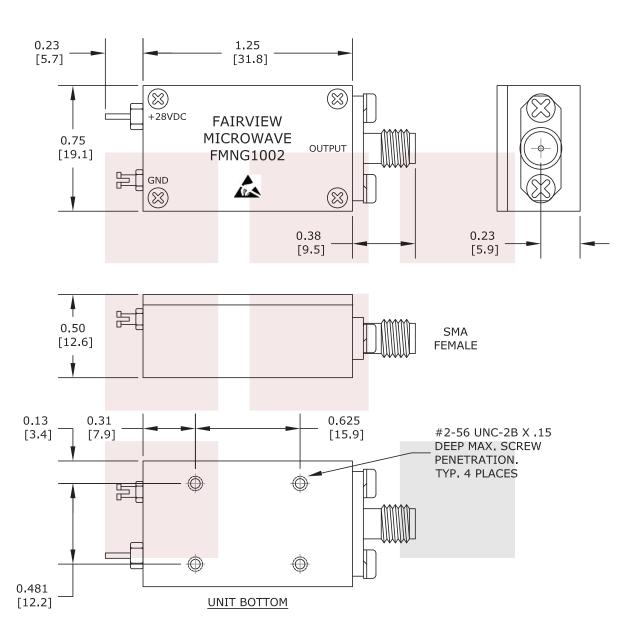
Click the following link to obtain additional part information: Calibrated Noise Source Module With a Noise Output ENR of 15 dB, and a Voltage of +28 VDC, Operating From 10 MHz to 6 GHz With SMA FMNG1002

URL: https://www.fairviewmicrowave.com/calibrated-noise-source-enr-15-db-6-ghz-sma-fmng1002-p.aspx

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	CAD FILE 110915	SHEET	SCALE	N/A	SIZE A	2233