

FMNG1022 DATA SHEET

Calibrated Noise Source Module With a Noise Output ENR of 15 dB, and a Voltage of +28 VDC, Operating From 1 GHz to 18 GHz With SMA

FMNG1022 is a coaxial packaged Noise Source module which operates over a wide frequency range from 1 GHz to 18 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 -20°C to +75°C with Noise Output Temperature Variation <0.01 dB/°C, Noise Output Variation <0.1 dB/%?V. The rugged package design supports an input Female 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



Electrical Specifications

Description	Min	Т	ур	Max	ι	Units	
Frequency Range	1			18	GHz		
Impedance		Ę	50	Ohms			
Output ENR	15					dB	
Flatness		±	1.5			dB	
VSWR				1.5:1			
Supply Voltage Sensitivit	.y			0.1	dl	dB/%V	
Thermal Sensitivity				0.01	d	B/°C	
Bias Voltage 1	22	2	28	30	Volts		
Input Current 1				25		mA	
Calibration Points	1 GHz St	ер					

Features:

- 1.0 GHz to 18.0 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
- Internal Voltage Regulation

Applications:

- Measure Noise Figure
- Signal Strength Calibrators
- Radar
- Jamming
- SATCOM for BER and NF
- Source of Jitter

Mechanical Specifications

Size

1.25 in [31.75 mm] Length 0.75 in [19.05 mm] Width/Dia. Height 0.5 in [12.7 mm] Weight 0.1069 lbs [48.49 g]

Package Type Connectorized Module

Connectors

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

Environmental Specifications Temperature

Operating Range **ESD Sensitivity**

-20 to +75 °C ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.

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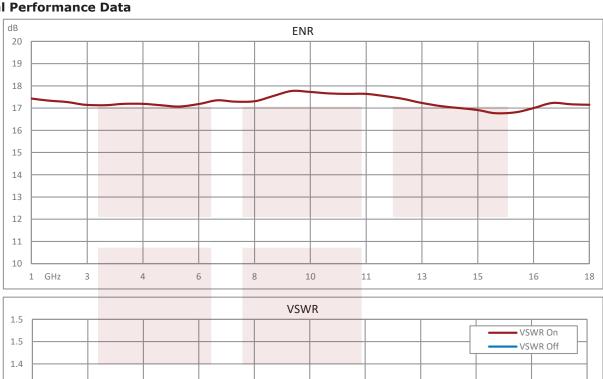


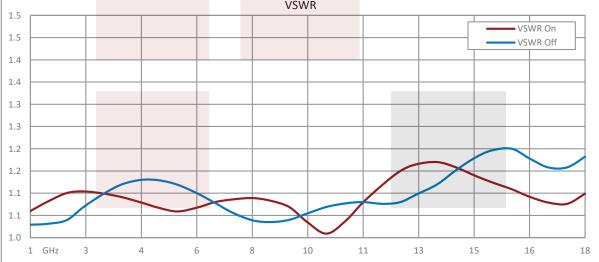
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data









Calibrated Noise Source Module With a Noise Output ENR of 15 dB, and a Voltage of +28 VDC, Operating From 1 GHz to 18 GHz With SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

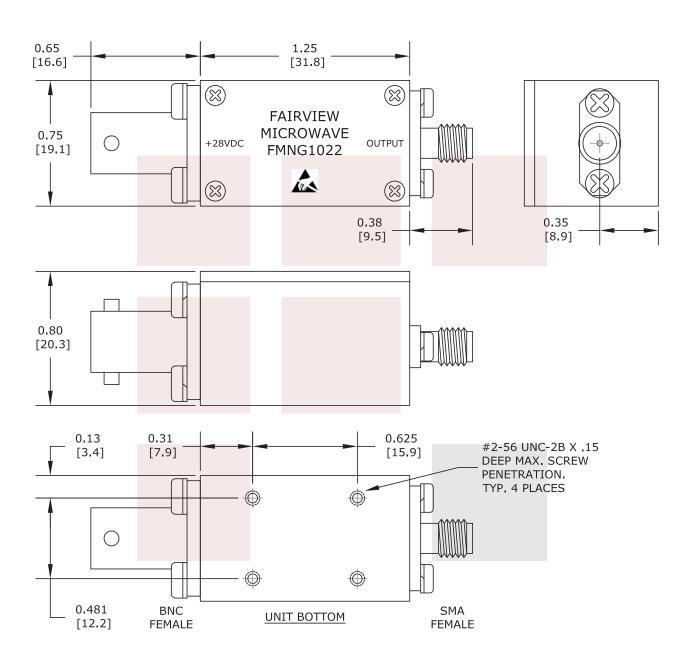
Click the following link to obtain additional part information: Calibrated Noise Source Module With a Noise Output ENR of 15 dB, and a Voltage of +28 VDC, Operating From 1 GHz to 18 GHz With SMA FMNG1022

URL: https://www.fairviewmicrowave.com/calibrated-noise-source-enr-15-db-18-ghz-sma-fmng1022-p.aspx









Fairview Microwave	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].								
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	CAD FILE 110515	SHEET	SCALE	N/A	SIZE A	2233			