

FMNG1021 DATA SHEET

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

FMNG1021 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 -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 biasing and an output Female SMA connector. Additionally, the model is designed to meet a variety of demanding conditions including Humidity, Thermal Shock, for highly reliable operation.

Electrical Specifications

Description	Min	Тур	Max	Units	
Frequency Range	0.01		6	GHz	
Impedance		50		0hms	
Output ENR	15			dB	
Flatness		±1.5		dB	
VSWR			1.35:1		
Supply Voltage Sensitivity			0.1	dB/%V	
Thermal Sensitivity			0.01	dB/°C	
Bias Voltage 1	22	28	30	Volts	
Input Current 1			25	mA	
Calibration Points	1 GHz Ste	эр			

Mechanical Specifications

Size Length Width/Dia. Height		1.25 in [31.75 mm] 0.75 in [19.05 mm] 0.5 in [12.7 mm]		
Weight		0.104 lbs [47.17 g]		
neight		01101100[17117 9]		
Package Type		Connectorized Module		
Connectors				
DC Connector		BNC Female		
Output Connector		SMA Female		
Environmental Specifi	cations			
Temperature				
Operating Range		-20 to +75 °C		
Environment				
Humidity		MIL-STD-202F, Method 103,		
Harmarty		Cond B (96 hrs@95% R.H.)		
Vibration		MIL-STD-202F, Method 204, Co	ond	
VIDIATION		B(0.6" 2x ampl or15g)	onu	
ESD Sensitivity		ESD Sensitive Material, Trans material in Approved ESD ba		



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:

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

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Handle only in ESD Workstation.



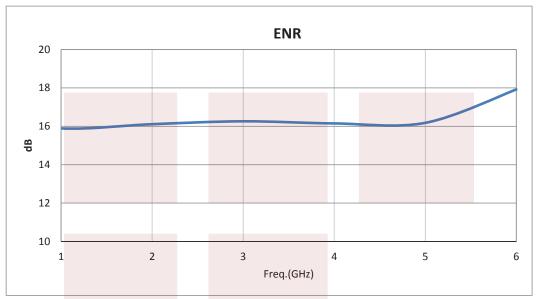


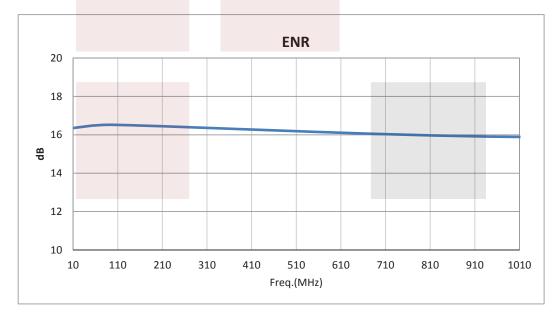
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data





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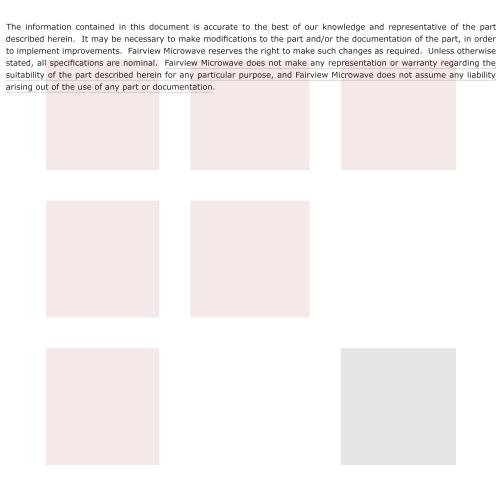




Calibrated Noise Source Module With a Noise Output ENR of 15 dB, and a Voltage of +28 VDC, Operating From 10 MHz to 6 GHz With SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities 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 10 MHz to 6 GHz With SMA FMNG1021

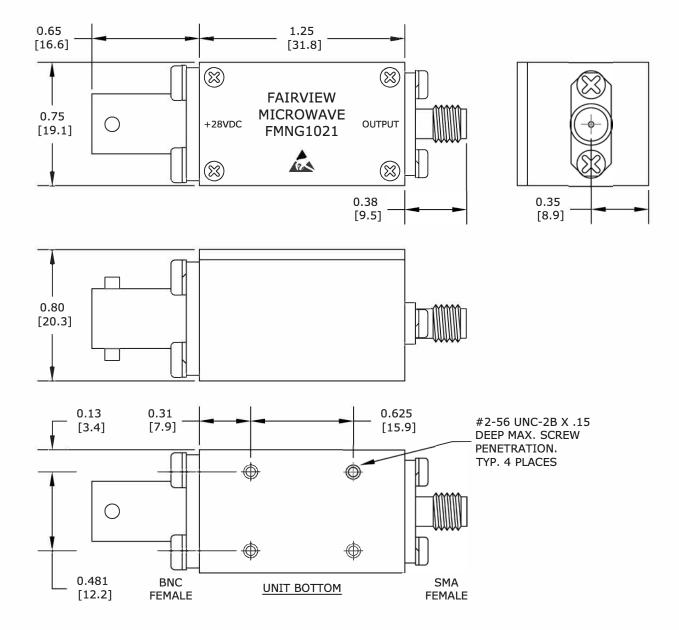
URL: https://www.fairviewmicrowave.com/calibrated-noise-source-enr-15-db-6-ghz-sma-fmng1021-p.aspx



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FAIRVIEW MICROWAVE INC.	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].					
™ 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	DWG NO FMNG1021			CAGE CODE 3FKR5		
	CAD FILE 110515	SHEET	SCALE	N/A	SIZE A	2233

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