

**Calibrated Noise Source Module With a Noise Output ENR of 15 dB, and a Voltage of +28 VDC, Operating From 0.01 MHz to 2 GHz With SMA**

FMNG1019 is a coaxial packaged Noise Source module which operates over a wide frequency range from 10 KHz to 2 GHz. The design is calibrated for 10, 100, 1000, and 2000 MHz frequencies and is ideal for Noise Figure measurements and a variety of built-in test applications. This model operates at +28 Vdc and features an ENR level of 15 dB min, typical flatness across the entire frequency band is +/- 0.5 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 MIL-STD-202F environmental test conditions including Humidity, Thermal Shock, and Vibration for added confidence for highly reliable operation.



**Features:**

- 10 kHz to 2 GHz Frequency Range
- Output Noise ENR 15 dB min
- Flatness 1.5 dB typ
- 28 VDC Operation
- Small Size 1.25" by 0.75" by 0.50"
- Internal Voltage Regulation

**Electrical Specifications**

Description	Min	Typ	Max	Units
Frequency Range	10KHz		2	GHz
Impedance		50		Ohms
Output ENR	15			dB
Flatness		±1.5		dB
VSWR			1.25:1	
Output Variation vs Input Voltage			0.1	dB/%V
Output Variation vs Temperature			0.01	dB/deg C
Bias Voltage 1	22	28	30	Volts
Input Current 1			20	mA
Calibration Points	10, 100, 1000, and 2000 MHz			

**Applications:**

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

**Mechanical Specifications**

<b>Size</b>	
Length	1.25 in [31.75 mm]
Width/Dia.	0.75 in [19.05 mm]
Height	0.5 in [12.7 mm]
Weight	0.01048 lbs [4.75 g]
Package Type	Connectorized Module
<b>Connectors</b>	
DC Connector	BNC Female
Output Connector	SMA Male

**Environmental Specifications**

<b>Temperature</b>	
Operating Range	-20 to +75 deg C
ESD Sensitivity	ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.



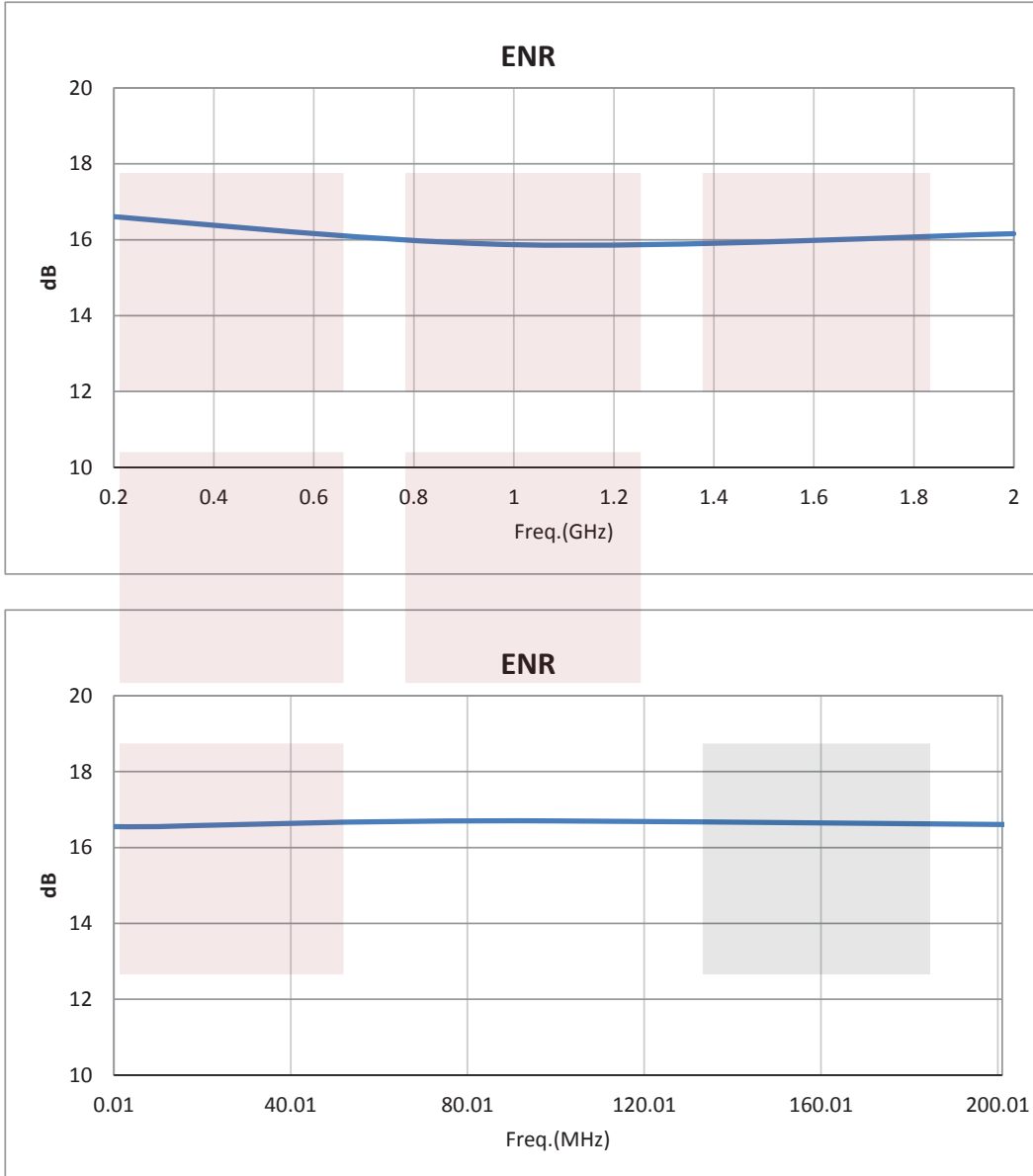
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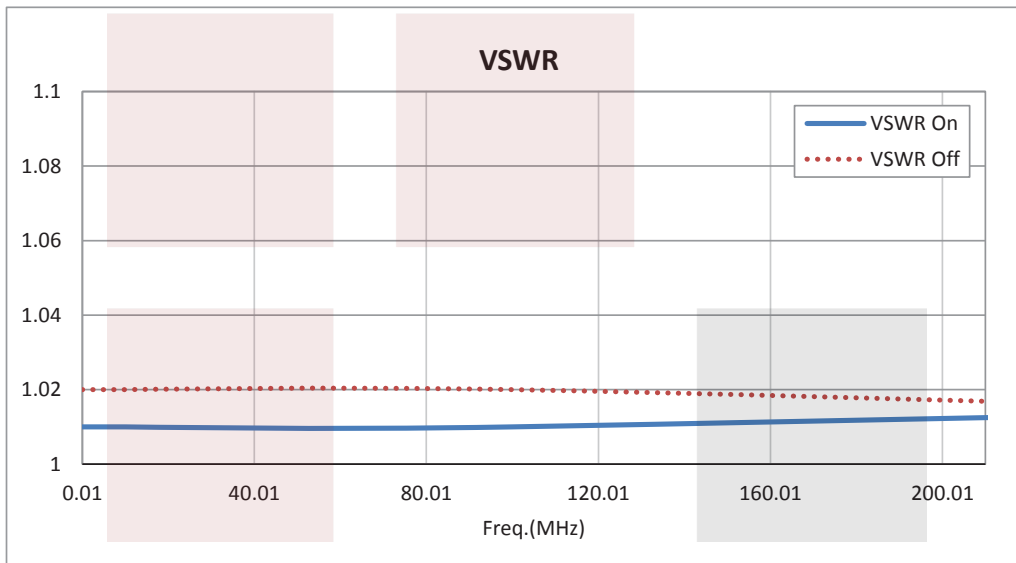
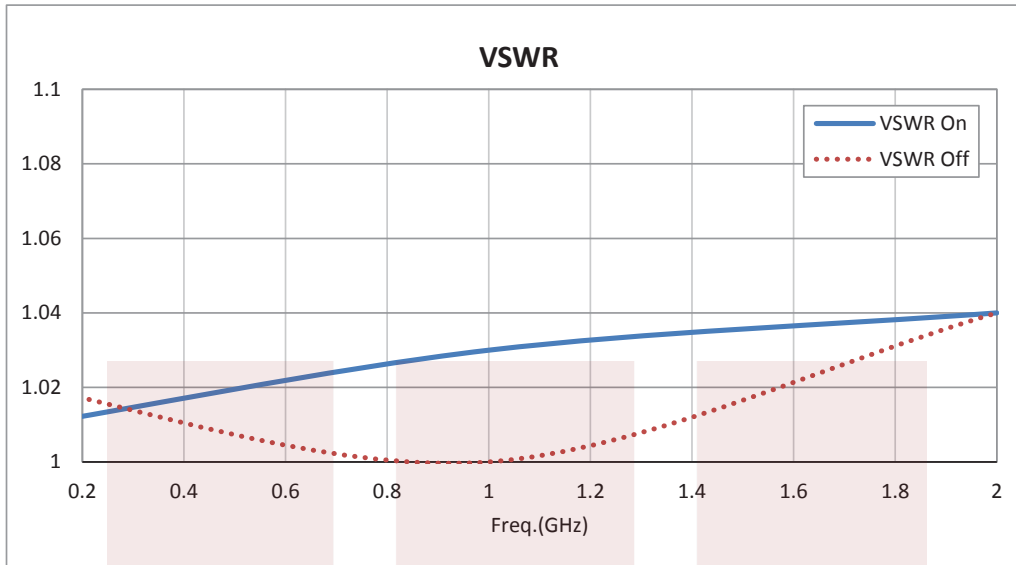
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

**Typical Performance Data**





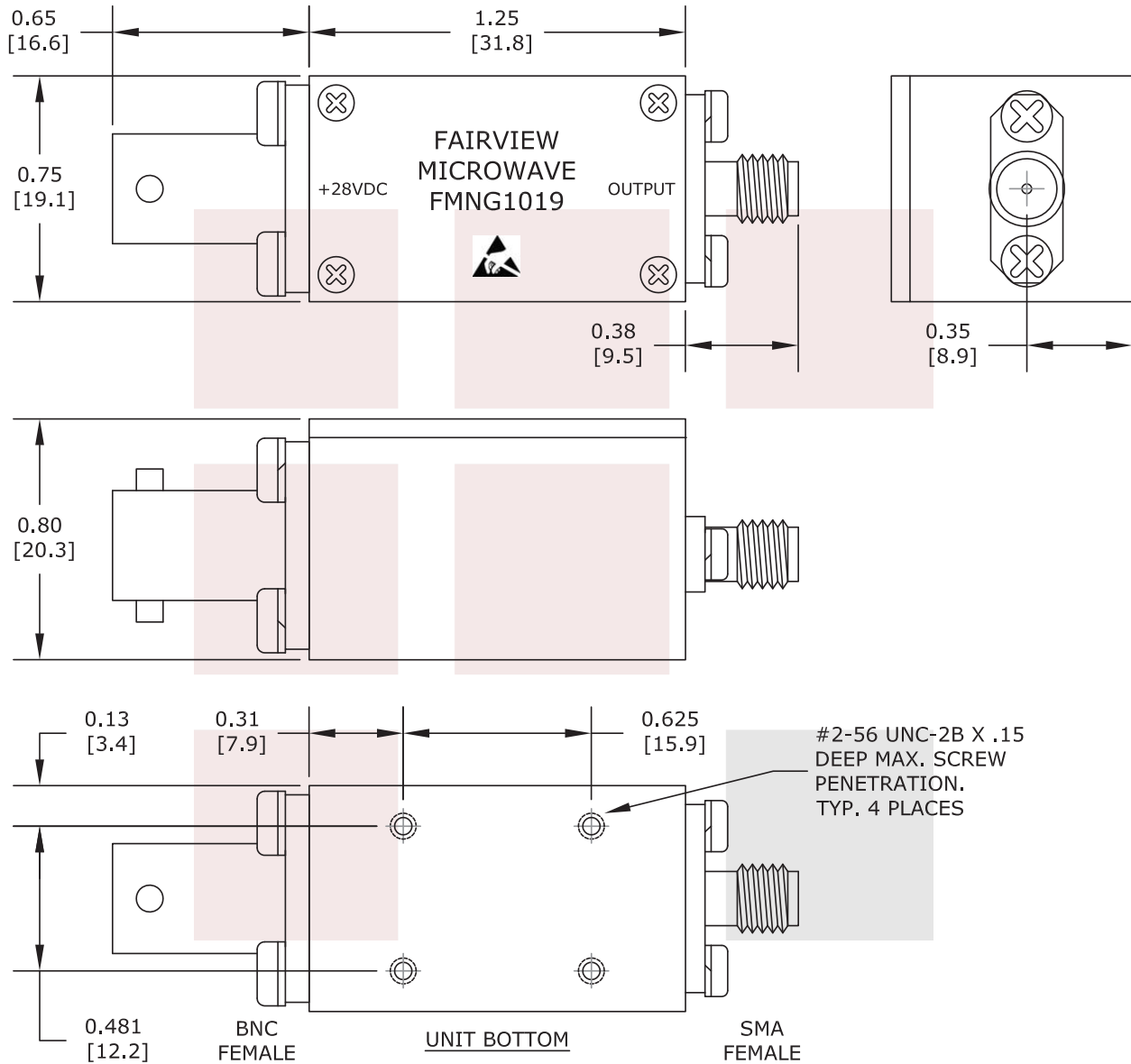
Calibrated Noise Source Module With a Noise Output ENR of 15 dB, and a Voltage of +28 VDC, Operating From 0.01 MHz to 2 GHz With SMA from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part 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 0.01 MHz to 2 GHz With SMA FMNG1019](#)

URL: <https://www.fairviewmicrowave.com/calibrated-noise-source-enr-15-db-2-ghz-sma-fmng1019-p.aspx>

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TITLE Calibrated Noise Source Module With a Noise Output ENR of 15 dB, and a Voltage of +28 VDC, Operating From 0.01 MHz to 2 GHz With SMA		DWG NO <b>FMNG1019</b>		CAGE CODE <b>3FKR5</b>	
CAD FILE 110515 SHEET		SCALE N/A		SIZE A	2233