



SMA Calibrated, Integral Isolator Noise Source Module, Output ENR of 30 dB, +28 VDC, 7.2 GHz to 8.4 GHz

The FNNI1015 is a coaxial packaged calibrated Noise Source with an integral Isolator which operates over the frequency range of 7.2 GHz to 8.4 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 a 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

Description	Min	Т	ур	Max	ι	Jnits
Frequency Range	7.2			8.4		GHz
Impedance		Į		Ohms		
Output ENR	30			35		dB
Flatness		±().75			dB
VSWR		1.	3:1			
Bias Voltage 1	22	:	28	30	,	Volts

Mechanical Specifications

Size Length Width/Dia. Height

Weight

Package Type

Connectors DC Connector

DC Connector Output Connector

Environmental Specifications

Temperature

Operating Range **Environment**

Humidity

Shock

Vibration

Altitude

2.5 in [63.5 mm] 1.25 in [31.75 mm] 0.81 in [20.57 mm]

2.25 lbs [1.02 Kg]

Connectorized Module

BNC Female SMA Female

-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)



Features:

- 7.2 to 8.4 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.

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Temperature Cycle Thermal Shock ESD Sensitivity

Plotted and Other Data

MIL-STD-202F, Method 105C, Condition D (5 cycles)
MIL-STD-202F, Method 107, Conditon 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)

Notes:										
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SMA Calibrated, Integral Isolator Noise Source Module, Output ENR of 30 dB, +28 VDC, 7.2 GHz to 8.4 GHz 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: SMA Calibrated, Integral Isolator Noise Source Module, Output ENR of 30 dB, +28 VDC, 7.2 GHz to 8.4 GHz FNNI1015

URL: https://www.fairviewmicrowave.com/calibrated-integral-isolator-noise-source-enr-30-db-8.4-ghz-sma-fnni1015-p. aspx

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