

FNNI1014 DATA SHEET

SMA Calibrated, Integral Isolator Noise Source Module, Output ENR of 30 dB, +28 VDC, 3.7 GHz to 4.2 GHz

The FNNI1014 is a coaxial packaged calibrated Noise Source with an integral Isolator which operates over the frequency range of 3.7 GHz to 4.2 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

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Description	Min	Тур	Max	Units
Frequency Range	3.7		4.2	GHz
Impedance		50		Ohms
Output ENR	30		35	dB
Flatness		±0.75		dB
VSWR		1. <mark>3:1</mark>		
Bias Voltage 1	22	28	30	Volts

Mechanical Specifications

Size Length Width/Dia. Height Weight		2.5 in [63.5 mm] 1.25 in [31.75 mm] 0.81 in [20.57 mm] 2.25 lbs [1.02 Kg]			
Package Type		Connectorized Module			
Connectors DC Connector Output Connector		BNC Female SMA Female			
Environmental Specifi	cations				
Temperature					
	Operating Range		-20 to +75 deg C		
Environment		MIL STD 2025 Mathad 102			
Humidity		MIL-STD-202F, Method 103, Cond B (96 hrs@95% R.H.)			
Shock		MIL-STD-202F, Method 213,			
		Cond B (100g, 6 msec)			
Vibration		MIL-STD-202F, Method 204, C	ond		
Altitude		B(0.6" 2x ampl or15g) MIL-STD-202F, Method 105, Condition B (50,000 ft)			



Features:

- 3.7 to 4.2 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 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)

Plotted and Other Data

Notes:

SMA Calibrated, Integral Isolator Noise Source Module, Output ENR of 30 dB, +28 VDC, 3.7 GHz to 4.2 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.

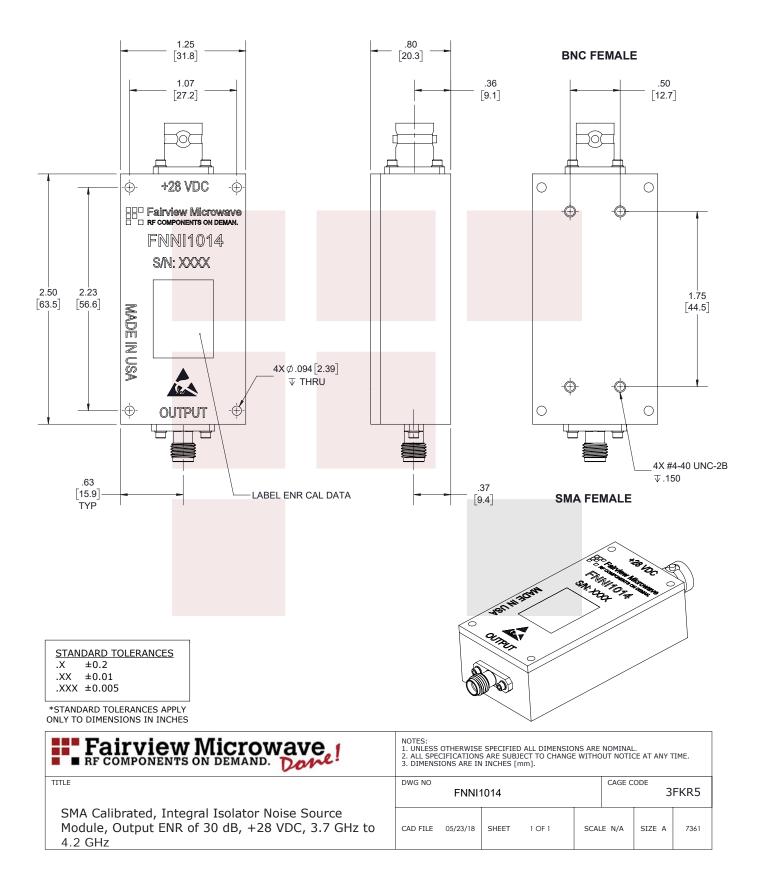
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