

## Amplified Noise Source Module With a Noise Output Pout of 10 dBm, and a Voltage of +15 VDC, Operating From 0.1 MHz to 500 MHz With SMA

The FNNA1010 is a coaxial packaged Amplified Noise Source module which operates over a wide frequency range from 0.1 MHz to 500 MHz. The high Crest Factor design generates an output power level of +10 dBm with +/- 1.5 dB typical flatness and is ideal for Bit Error Rate (BER) testing for wireless test applications, as well as for Noise Figure measurements and a variety of built-in test applications. Noise power is -77 dBm/Hz and the temperature coefficient is 0.025 dB/°C. The input voltage is +15 Vdc which is internally regulated and the operational temperature range is -40°C to +100°C. The rugged package design supports an output Female SMA connector with an EMI/RFI filter voltage pin and ground tab. 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**

Min	Тур	Max	Units
0.1		500	MHz
	50		Ohms
	±1.5		dB
}	0.025		dB/deg C
	10		dBm
	-77		dBm/Hz
14	15	18	Volts
		160	mA
	0.1	0.1   50   ±1.5   0.025   10   -77	0.1 500   50 ±1.5   0.025 10   -77 14

### Mechanical Specifications

Size Leng Widt Heig Weig	gth th/Dia. Jht		3.25 in [82.55 mm] 0.98 in [24.89 mm] 0.5 in [12.7 mm] 2.25 lbs [1.02 Kg]		
Pack	kage Type		Connectorized Module	_	
DC (	<b>Connectors</b> DC Connector Output Connector		Pin SMA Female		
<b>Ten</b> Ope	nmental Specifi perature rating Range age Range	cations	-40 to +100 deg C -55 to +150 deg C		
	<b>ironment</b> nidity		MIL-STD-202F, Method 103, Cond B (96 hrs@95% R.H.)		Fai 30:
Sho	ck		MIL-STD-202F, Method 213,		Lev
Vibr	Vibration MIL-S		Cond B (100g, 6 msec) MIL-STD-202F,Method 204,C B(0.6" 2x ampl or15g)	Cond	Tel Fax ww



**FNNA1010** 

**DATA SHEET** 

### Features:

- 0.1 MHz to 500 MHz Bandwidth
- High Crest Factor Design
- Output Power: +10 dBm
- Typical Flatness: +/- 1.5 dB
- Noise Power: -77 dBm/Hz
- SMA Female Output Connector
- Designed to meet MIL-STD-202F environmental test conditions
- Amplified Noise Source
- Internal Voltage Regulation

# **Applications:**

- Bit Error Rate (BER) Testing for wireless test applications
- Random Jitter source
- Built-In Test equipment for signal strength calibrators and radar applications
- Dithering for increased dynamic range of A/D converters.

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Altitude Temperature Cycle Thermal Shock ESD Sensitivity MIL-STD-202F, Method 105, Condition B (50,000 ft) 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:

Amplified Noise Source Module With a Noise Output Pout of 10 dBm, and a Voltage of +15 VDC, Operating From 0.1 MHz to 500 MHz 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.

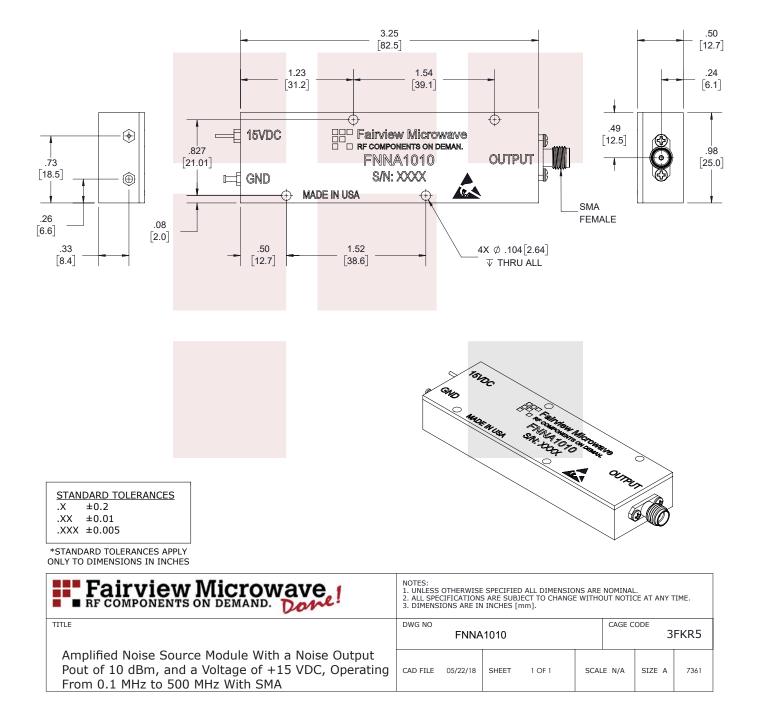
Click the following link to obtain additional part information: Amplified Noise Source Module With a Noise Output Pout of 10 dBm, and a Voltage of +15 VDC, Operating From 0.1 MHz to 500 MHz With SMA FNNA1010

URL: https://www.fairviewmicrowave.com/amplified-noise-source-pout-10-dbm-500-mhz-sma-fnna1010-p.aspx

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