



# 10 MHz to 3 GHz DIP Packaged Noise Source Module, Output Pout of -5 dBm, +15 VDC, 24 PIN

The FMNSNS5001 is a dual in-line packaged (DIP) noise source module which operates over a frequency range from 10 MHz to 3 GHz. The industry standard 24 pin DIP package is particularly useful in circuit board applications used for builtin test equipment, dithering for increased dynamic range of A/D converters, and as a source for bit error rate testing. The design utilizes internal filtering to limit bandwidth and operates at +15 Vdc. Noise Output level is -5 dBm with maximum flatness of  $\pm 2$  dB. The ouput White Gaussian Noise has a minimum power level of -100 dBm/Hz and a Crest Factor of 5:1. Operating temperature range is -55°C to +125°C with a temperature coefficient of 0.025 dB/°C.



Description	Min	T	ур	Max	Unit	5
Frequency Range	0.01			3	GHz	
Impedance		50			Ohms	5
Flatness				±2	dB	
Thermal Sensitivity		0.0	0.025		dB/deg C	
Output Power		-	5	dBm		
Noise Power Spectral De	nsity	-1	00	dBm/Hz		łΖ
Bias Voltage 1		-	5		Volts	
Input Current 1				100	mA	
Crest Factor		5	:1			

#### **Mechanical Specifications**

 Size
 1.38 in [35.05 mm]

 Width/Dia.
 0.795 in [20.19 mm]

 Height
 0.7 in [17.78 mm]

 Package Type
 Drop In

 Connectors
 DC Connector

## **Environmental Specifications Temperature**

Operating Range -55 to +125 °C Storage Range -65 to +150 °C

**Compliance Certifications** (see product page for current document)

#### **Plotted and Other Data**

Notes:



#### **Features:**

- Industry Standard 24 Pin DIP Packaged Noise Source module
- Frequency Range: 10 MHz to 3000 MHz
- Noise Output Level: -5 dBm
- Internal Filtering to limit bandwidth
- Maximum Flatness: ±2 dB
- White Gaussian Noise Output
- Minimum power level -100 dBm/
- DC Voltage: +15 Vdc
- -55°C to +125°C Operating Temperature
- Crest Factor: 5:1

### **Applications:**

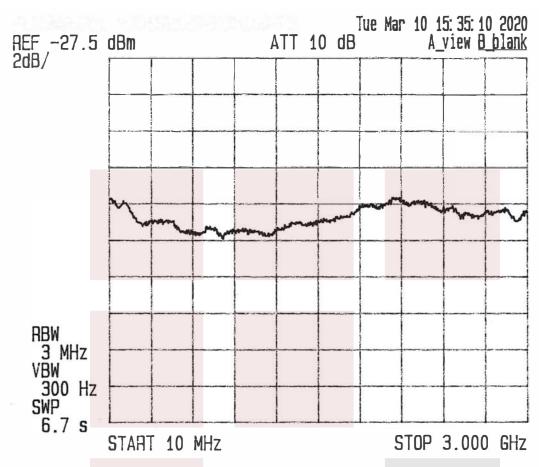
- Noise Figure Test & Measurment
- Built-In Test Equipment
- Dithering for Increased Dynamic Range for A/D Converters
- Source for Bit Error Rate Testing

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#### **Typical Performance Data**



10 MHz to 3 GHz DIP Packaged Noise Source Module, Output Pout of -5 dBm, +15 VDC, 24 PIN 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: 10 MHz to 3 GHz DIP Packaged Noise Source Module, Output Pout of -5 dBm, +15 VDC, 24 PIN FMNS5001

URL: https://www.fairviewmicrowave.com/noise-source-pout-negative-5-dbm-3-ghz-fmns5001-p.aspx

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