

FNNA1012 DATA SHEET

Amplified Noise Source Module With a Noise Output Pout of 0 dBm, and a Voltage of +15 VDC, Operating From 10 MHz to 3 GHz With SMA

The FNNA1012 is a coaxial packaged Amplified Noise Source module which operates over a wide frequency range from 10 MHz to 3 GHz. The high Crest Factor design generates an output power level of 0 dBm with +/- 2 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 -95 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 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 | Units |
| Frequency Range | 0.01 | | | 3 | GHz |
| Impedance | | 5 | 0 | | Ohms |
| Flatness | | ± | 2 | | dB |
| Output Variation vs Temp | erature | 0.0 |)25 | | dB/deg C |
| Output Power | | (| 0 | | dBm |
| Output Power Spectral De | ensity | -9 | 95 | | dBm/Hz |
| Bias Voltage 1 | 14 | 1 | .5 | 18 | Volts |
| Input Current 1 | | | | 300 | mA |
| | | | | | |

Mechanical Specifications

| Mechanical Specificati | ons | | Additive |
|---|---------|--|---|
| Size Length Width/Dia. Height Weight Package Type | | 3.25 in [82.55 mm] 0.98 in [24.89 mm] 0.5 in [12.7 mm] 2.25 lbs [1.02 Kg] Connectorized Module | (AWGN Measur • Increas Conver • SATCOI and noi • Can be |
| Connectors DC Connector Output Connector | | Pin SMA Female | |
| Environmental Specifie Temperature Operating Range Storage Range | cations | -40 to +100 deg C -55 to +150 deg C | |
| Environment Humidity | | MIL-STD-202F, Method 103, Cond B (96 hrs@95% R.H.) | |
| Shock | | MIL-STD-202F, Method 213, Cond B (100g, 6 msec) | 301 Leora |
| Vibration | | MIL-STD-202F,Method 204,C B(0.6" 2x ampl or15g) | Tel: 1-800 |
| Altitude | | MIL-STD-202F, Method 105, Condition B (50,000 ft) | Fax: (972 www.fairv sales@fail |



Features:

- 10 MHz to 3 GHz Bandwidth
- High Crest Factor Design
- Output Power: 0 dBm
- Typical Flatness: +/- 2.0 dB
- Noise Power: -95 dBm/Hz
- SMA Female Output Connector
- Designed to meet MIL-STD-202F
 environmental test conditions
- Amplified Noise Source
- Internal Voltage Regulation

Applications:

- Noise Figure Measurements
- Built-In Test equipment for signal strenth calibrators and radar applications
- Automatic Test Equipment (ATE)Jamming
- Baseband Signal Simulation
- Additive White Gausian Noise
 (AWGN) source for Error Rate
 Measurements
- Increase dynamic range of A/D Converters
- SATCOM for bit error rate (BER) and noise figure
- Can be used as a Jitter source.

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





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:

Amplified Noise Source Module With a Noise Output Pout of 0 dBm, and a Voltage of +15 VDC, Operating From 10 MHz to 3 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.

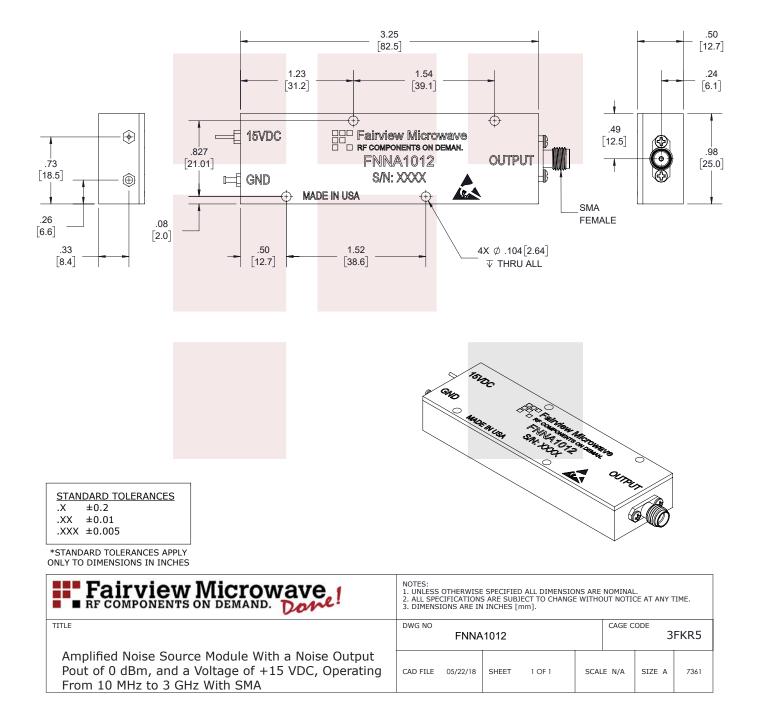
Click the following link to obtain additional part information: Amplified Noise Source Module With a Noise Output Pout of 0 dBm, and a Voltage of +15 VDC, Operating From 10 MHz to 3 GHz With SMA FNNA1012

URL: https://www.fairviewmicrowave.com/amplified-noise-source-pout-0-dbm-3-ghz-sma-fnna1012-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689





FNNA1012 DATA SHEET

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689