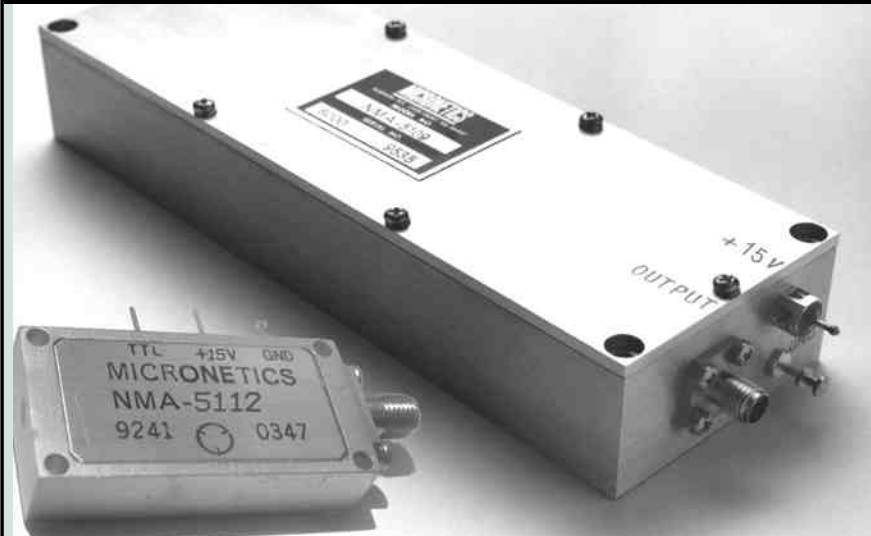


NMA 5100 SERIES HIGH POWER NOISE GENERATORS

100 Hz TO 18 GHz

RevE / 10.2007



NMA 5100 OUTPUT CHARACTERISTICS

| MODEL | FREQUENCY | FLATNESS | VSWR | RF OUTPUT dBm/Hz | Power (dBm) |
|------------|---------------|----------|-------|---------------------|----------------|
| NMA-5107 | 100Hz-100MHz | 2.0 dB | 1.5:1 | -70 +5.0, -1.0 dB | +10 |
| NMA-5108 | 100Hz-300MHz | 3.0 dB | 1.5:1 | -75 +5.0, -1.5 dB | +10 |
| NMA-5109 | 100Hz-500MHz | 4.0 dB | 1.5:1 | -77 +5.0, -2.0 dB | +10 |
| NMA-5110 | 300MHz-1GHz | 4.0 dB | 1.5:1 | -79 +5.0, -2.0 dB | +10 |
| NMA-5111 * | 1GHz-2GHz | 4.0 dB | 2.0:1 | -80 +5.0, -2.0 dB | +10 |
| NMA-5112 * | 10MHz-2GHz | 4.0 dB | 2.0:1 | -83 +5.0, -2.0 dB | +10 |
| NMA-5200 | 100Hz-1GHz | 4.0 dB | 2.0:1 | -80 +5.0, -2.0 dB | +10 |
| NMA-5250 | 100Hz-1500MHz | 5.0 dB | 2.0:1 | -82 +5.0, -2.5 dB | +10 |
| NMA-5300 † | 2GHz-18GHz | 5.0 dB | 2.0:1 | -107 +5.0, -2.5 dB | -5 |

Warning: when using a narrow band filter following the noise module, use a 3 dB or greater pad to prevent damage caused by reflective power.

All modules are available only in "M" package, unless noted *.

* Available only in "T" package

† Available only in +15V unless separate DC conversion module is ordered

How to order:

N M A 5 X X X - X X X

A = 28V

B = 15V

1 = Standard

** 2 = TTL

M = M Style Package

T = T Style Package

**TTL available on
NMA 5111 + 5112

DESCRIPTION

The NMA 5100 Series Noise Generators are ideal for high power applications like jamming and bit error rate testing. They come in a rugged, SMA connectorized package for use in the lab or the field, and can also be used as the foundation for building higher level assemblies.

The spectrum of the noise is white (flat over frequency) with a random Gaussian probability function (PDF) for accurate modeling and testing.

SPECIFICATIONS

- † Operating Temperature: 0 to +70°C
- † Storage: -40 to +95°C
- † Supply Voltage: +15 VDC, +28 VDC
- † Temperature Stability: 0.025 dB/°C
- † Output Impedance: 50 ohm
- † Peak Factor: 5:1

APPLICATIONS

- † Barrage Jamming / Jamming Simulation
- † Setting C/N or E_b/N_0
- † Channel Simulation
- † Bit Error Rate (BER) Testing
- † Modem Testing
- † Random Jitter Testing

MICRONETICS
NOISE PRODUCTS