

NMA 2000 Noise Source Series

100Hz TO 2GHz

6.2008



NMA 2000 OUTPUT CHARACTERISTICS

MODEL*	FREQUENCY	NOISE OUTPUT LEVEL					CURRENT	
		FLATNESS	mV/ BAND	$\mu\text{V}/\sqrt{\text{Hz}}$	dBm/ BAND	dBm/Hz	ENR(dB) Typ.	mA Typ.
NMA-2001	100Hz-100kHz	$\pm 1.0\text{dB}$	10	31.6	$-27 \pm 3.0\%$	-77	97.0	12
NMA-2002	100Hz-300kHz	$\pm 1.0\text{dB}$	10	18.2	$-27 \pm 3.0\%$	-82	92.2	12
NMA-2003	100Hz-1MHz	$\pm 1.0\text{dB}$	10	10.0	$-27 \pm 3.0\%$	-87	87.0	12
NMA-2004	100Hz-3MHz	$\pm 1.0\text{dB}$	10	5.8	$-27 \pm 3.0\%$	-92	82.2	12
NMA-2005	100Hz-10MHz	$\pm 1.0\text{dB}$	10	3.2	$-27 \pm 3.0\%$	-97	77.0	12
NMA-2006	100Hz-30MHz	$\pm 1.0\text{dB}$	10	1.8	$-27 \pm 3.0\%$	-102	72.2	12
NMA-2007	500Hz-100MHz	$\pm 1.50\text{dB}$	10	1.0	$-27 \pm 3.0\%$	-107	67.0	25
NMA-2008	500Hz-300MHz	$\pm 2.0\text{dB}$	10	0.57	$-27 \pm 3.0\%$	-112	62.2	25
NMA-2009	500Hz-500MHz	$\pm 2.0\text{dB}$	10	0.45	$-27 \pm 3.0\%$	-114	60.0	25
NMA-2010	100kHz-1.0GHz	$\pm 2.0\text{dB}$	10	0.32	$-27 \pm 3.0\%$	-117	57.0	75
NMA-2011	100kHz-1.5GHz	$\pm 2.0\text{dB}$	10	0.26	$-27 \pm 3.0\%$	-119	55.2	75
NMA-2012	100kHz-2.0GHz	$\pm 2.0\text{dB}$	10	0.22	$-27 \pm 3.0\%$	-120	54.0	75

*For SMA connectorized package add S to Model No.

reference style code D and T for packaging dimensions

email: noise@micronetics.com for more info

DESCRIPTION

The NMA 2000 Noise Sources are designed to simulate a variety of environmental conditions in sophisticated radar systems. In addition, it is often used for testing industrial and/or military communication systems. The NMA 2000 offers filtered output which eliminates unwanted noise outside of the specified frequency range. It also provides a great deal of temperature stability, which guarantees optimum performance even under constantly-changing environmental conditions.

SPECIFICATIONS

- Operating Temperature: -55 to +95°C
- Storage Temperature: -65 to +125°C
- Supply Voltage: +15 VDC
- Temperature Stability: 0.025 dB/°C
- Output Impedance: 50 ohm
- Peak Factor: 5:1

APPLICATIONS

- Signal simulation in communication systems
- Environmental simulation (hail, rain or wind shear) in radar systems
- Built-in self-test for communication and radar receivers
- Security/digital encryption