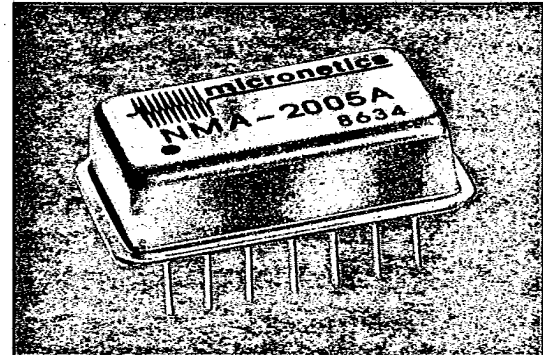


micronetics inc.
A Quantech Company

NMA-2000
SERIES
 μ -NOISE
MODULES

Features:

- True White Symmetrical Gaussian Noise
- 14 Pin DIP
- 5:1 Peak Factor (Voltage) 14 dB
- Ultra Compact Size .875" x .5" x .24"
- High Level Noise Output To 500 MHz
- Optional Supply Voltages Available



OUTPUT CHARACTERISTICS-50 OHM LOAD

Model	Frequency Range	Noise Output Level					
		Flatness	mV/band	μ V/ $\sqrt{\text{Hz}}$	dBm/band	dBm/Hz	ENR(dB)
NMA-2001	100Hz-100kHz	$\pm .5$ dB	5	15.8	-32	-82	91.0
NMA-2002	100Hz-300kHz	$\pm .5$ dB	10	18.2	-27	-82	92.2
NMA-2003	100Hz-1MHz	$\pm .5$ dB	10	10.0	-27	-87	87.0
NMA-2004	100Hz-3MHz	$\pm .5$ dB	10	5.8	-27	-92	82.2
NMA-2005	100Hz-10MHz	$\pm .5$ dB	10	3.2	-27	-97	77.0
NMA-2006	100Hz-30MHz	$\pm .5$ dB	5	.91	-33	-108	66.2
NMA-2007	500Hz-100MHz	$\pm .75$ dB	2.5	.25	-39	-119	55.0
NMA-2008	500Hz-300MHz	± 1.0 dB	4.4	.25	-34	-119	55.0
NMA-2009	500Hz-500MHz	± 1.5 dB	5.6	.25	-32	-119	55.0

OUTPUT CHARACTERISTICS-600 OHM LOAD

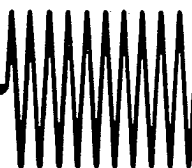
Model	Frequency Range	Noise Output Level					
		Flatness	mV/band	μ V/ $\sqrt{\text{Hz}}$	dBm/band	dBm/Hz	ENR(dB)
NMA-2001-600	100Hz-100kHz	$\pm .5$ dB	10	31.6	-38	-88	86.2
NMA-2002-600	100Hz-300kHz	$\pm .5$ dB	10	18.2	-38	-93	81.4
NMA-2003-600	100Hz-1MHz	$\pm .5$ dB	10	10.0	-38	-98	76.2
NMA-2004-600	100Hz-3MHz	$\pm .5$ dB	10	5.8	-38	-103	71.4
NMA-2005-600	100Hz-10MHz	$\pm .5$ dB	10	3.2	-38	-108	66.2
NMA-2006-600	100Hz-30MHz	$\pm .5$ dB	10	1.8	-38	-113	61.4

Specifications:

Load Impedance	50 Ohm, 600 Ohm
Noise Symmetry	95% Typ, 90% Min
Peak Factor	5:1 Min (Voltage)
Operating Temperature	-55°C to 85°C
Temp. Coefficient	.025 dB/°C Typ.
Voltage Supply	
Sensitivity	.4 dB/100 mV
Maximum Storage Temperature	-62°C to 150°C

Power Requirements:

NMA 2001-2006	+15V	12 mA
NMA 2007-2009	+15V	25 mA
Same For 600 Ω Modules		
Maximum Supply Voltage	+18 VDC	



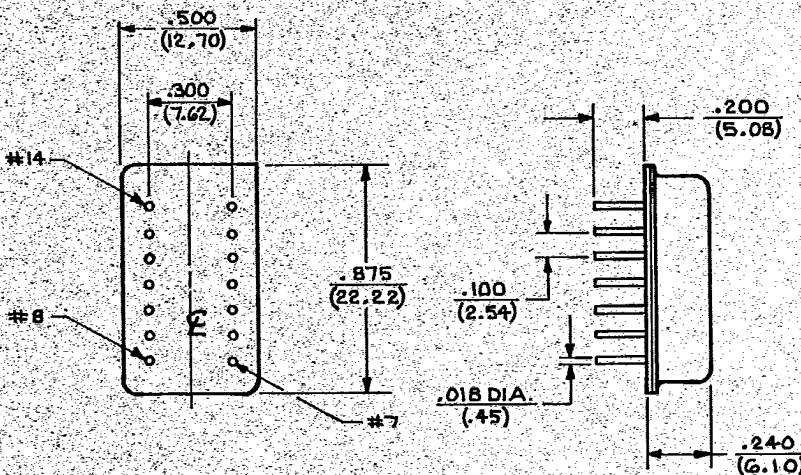
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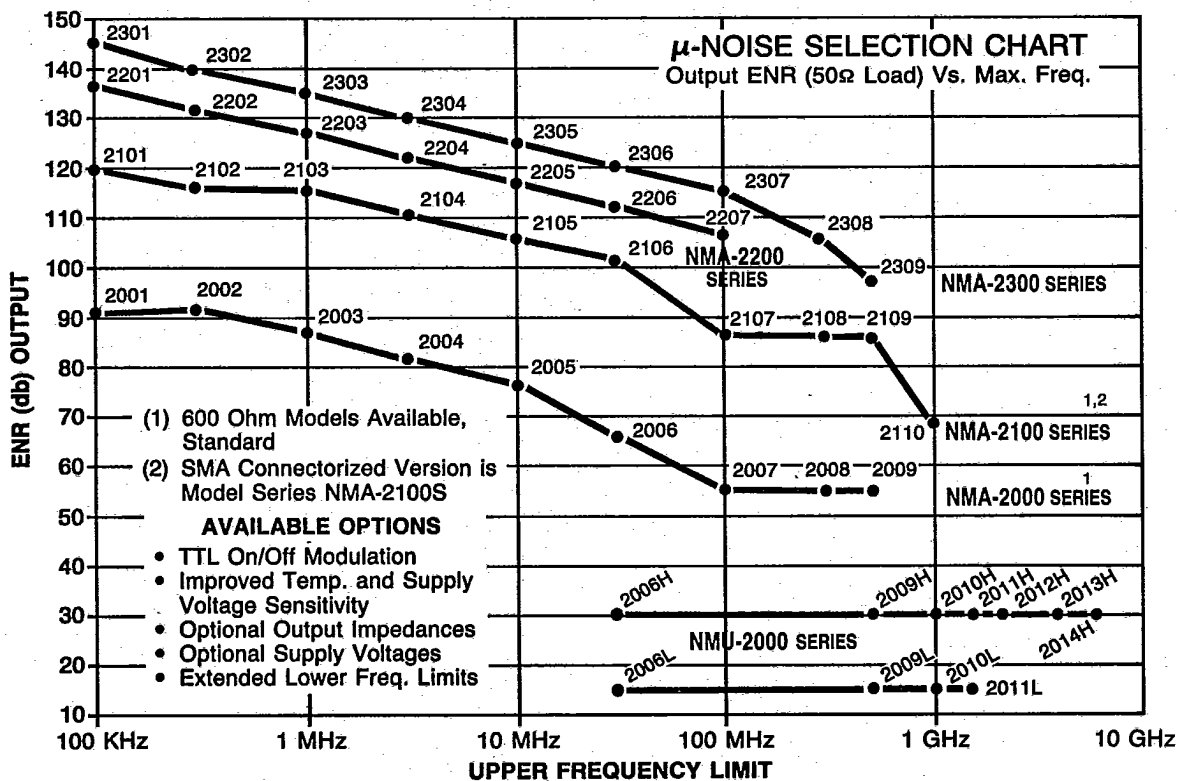
1/87 Preliminary Data Sheet

Outline Dimensions Inches (mm)

PIN	FUNCTION
7	GROUND
8	NOISE OUTPUT
14	SUPPLY VOLTAGE



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