

## NC6000A/NC8000A Series



*Count on the Noise Leader. Count on Noise Com.*

# NC6000A/8000A Noise Generator Series

The **NC6000A** and **NC8000A** Series instruments are designed for general-purpose noise applications on the bench, or in a rack test station. The manual controls make it simple to operate and reduce test set up time. The standard output power NC6000 is typically used for BER, and SNR applications, while the high power NC8000 is a good candidate for signal jamming. Each instrument contains a precision noise source that delivers repeatable, symmetrical white Gaussian noise and is integrated with an amplifier, attenuator, and power supply. Noisecom will modify base units for specific customer needs. For pricing and availability, consult the factory.

## General Specifications

- Output White Gaussian noise
- Attenuator range 0 to 10 dB in 1 dB steps
- Impedance 50 Ohms
- Typical VSWR 1.5:1
- Standard connector SMA female (K female for NC6240)
- Dimensions:  
(NC6000) 8.5 in. wide x 5 in. high x 12.25 in. deep  
(NC8000) 17 in. wide x 5.25 in. high x 13 in. deep
- Power requirements are 120 VAC, 60 Hz, at 500 mA for the NC6000, 1500 mA for the NC8000
- Operating temperature -10°to +60°C



## Specifications

### NC6000/NC8000 Series

Model	Frequency Band	Output Characteristics			
		Power (dBm)	PSD dBm/Hz	Flatness (dB)	$\mu\text{V}/\text{root}$ (Hz)
<b>NC6000</b>					
NC6101	10 Hz - 20 kHz	+13	-30	$\pm 0.5$	7071
NC6103	10 Hz - 500 kHz	+13	-44	$\pm 0.5$	1414
NC6105	10 Hz - 10 MHz	+13	-57	$\pm 0.75$	316
NC6107	100 Hz - 100 MHz	+13	-67	$\pm 1.0$	100
NC6108	100 Hz - 500 MHz	+10	-77	$\pm 1.5$	31.6
NC6109	100 Hz - 1 GHz	+10	-80	$\pm 2.0$	22.4
NC6110	100 Hz - 1.5 GHz	+10	-82	$\pm 2.0$	18.2
NC6111	1 GHz - 2 GHz	+10	-80	$\pm 2.0$	22.4
NC6112	1 MHz - 2 GHz	0	-93	$\pm 2.0$	5.01
NC6124	2 GHz - 4 GHz	-10	-106	$\pm 2.0$	1.58
NC6126	2 GHz - 6 GHz	-15	-113	$\pm 2.0$	0.5
NC6218	2 GHz - 18 GHz	-20	-122	$\pm 3.0$	0.18

### NC8000

NC8103	500 Hz - 500 kHz	+30	-27	$\pm 2.0$
NC8105	500 Hz - 10 MHz	+30	-40	$\pm 2.0$
NC8107	250 kHz - 100 MHz	+30	-50	$\pm 2.0$
NC8108	1 MHz - 200 MHz	+30	-53	$\pm 2.0$
NC8109	1 MHz - 300 MHz	+30	-55	$\pm 2.0$
NC8110	2 MHz - 500 MHz	+30	-57	$\pm 2.0$
NC8111	5 MHz - 1 GHz	+30	-60	$\pm 2.5$

\* High power units have a reduced crest factor.

## Applications

- BER Testing
- Military Jamming
- CATV Testing
- Video Testing
- General Purpose



## Options

Option number	Description
NC6/NC8opt01	100 dB attenuator in 10 dB steps*
NC6/NC8opt02	110 dB attenuator in 1 dB steps (two attenuators)**
NC6/NC8opt03	Line power 230 VAC, 50 Hz
NC6/NC8opt04	Combiner for input signal (6dB loss in noise and signal paths)
NC6opt06	19 in. Rack mount (NC6000 only) 17 in. wide by 3.5 in. high by 13 in. deep
NC6/NC8opt07	N female output connector
NC6/NC8opt08	BNC female output connector
NC6/NC8opt09	75-ohm output impedance (6 dB loss)
NC6/NC8opt10	Additional 1 dB attenuator in 0.1 dB steps***
NC6/NC8opt11	Custom frequency, power, or flatness requirement****

- \* 60 dB for NC6214 and NC6218
- \*\* 69 dB for NC6214 and NC6218
- \*\*\* N/A for NC6124, NC6218 and NC6240
- \*\*\*\* Consult factory for pricing and availability



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N/NC6000/0606/EN