

NC6000A/NC8000A Series AWGN Noise Generator



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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 NC6000A is typically used for BER, and SNR applications, while the high power NC8000A 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 NC6226)
- Dimensions:
 (NC6000A) 8.5 in. wide x 5 in. high x 12.25 in. deep
 (NC8000A) 17 in. wide x 5.25 in. high x 13 in. deep
- Power requirements are 120 VAC, 60 Hz, at 500 mA for the NC6000A, 1500 mA for the NC8000A
- Operating temperature -10° to + 60°C



Applications

- BER Testing
- Military Jamming
- "K" Band Capability
- CATV Testing
- Video Testing
- General Purpose



Specifications

NC6000A/NC8000A Series

NC6000A		Output Char	Output Characteristics				
Model	Frequency Band	Power (dBm)	PSD dBm/Hz	Flatness (dB)	μV/root (Hz)		
NC6105A	10 Hz-10 MHz	+13	-57	±0.75	316		
NC6108A	100 Hz-500 MHz	+10	-77	±1.5	31.6		
NC6110A	100 Hz-1.5 GHz	+10	-82	±2.0	18.2		
NC6111A	1 GHz-2 GHz	+10	-80	±2.0	22.4		
NC6112A	1 MHz-2 GHz	0	-93	±2.5	5.01		
NC6113A	1 MHz-3 GHz	0	-95	±2.5	5.01		
NC6116A	10 MHz-6 GHz	-10	-107	±2.5	0.98		
NC6128A	10 MHz-10 GHz	-17	-117	±3.5	0.32		
NC6218A	2 GHz-18 GHz	-20	-122	±3.0	0.18		
NC6226A	2 GHz-26.5 GHz	-20	-124	±3.0	0.14		

NC8000A

Model	Frequency Band	Power (dBm)	PSD dBm/Hz	Flatness (dB)
NC8111A*	5 MHz-1 GHz	+30	-60	±2.5
NC8112A	1GHz -2 GHz	+30	-60	±2.5

 $^{{}^{\}star}{}$ High power units have a reduced crest factor.

Options

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

^{*60} dB for NC6218A, and NC6226A **69 dB for NC6218A, NC6226A

^{****}Consult factory for pricing and availability



NC6000 with a rack mount.



NC8000 Noise Generator.



^{***}N/A for NC6226A