

Broadband Noise Generator

Ethernet Control

The RNG series of ethernet controlled noise generators provide up to 1 watt of white Gaussian noise output in several models over the 10Hz to 18GHz frequency range, with custom options to 40GHz and are designed to be used either as laboratory instruments or as built-in system test facilities. The noise, which is diode generated, is amplified and the level can be varied in steps from 0 to 60dB depending upon the attenuator range option chosen. Further standard options are available in addition to the ability to provide custom solutions for particular applications. Control of the output level is via a remote GUI and can also be effected locally with the front panel controls and LCD screen. These units also feature an output mute option

Typical applications:

- 10Hz-18GHz
- High Output, up to +30dBm
- White Symmetrical Gaussian Noise
- Test Instrument
- Flat Output
- Fine Attenuation Control
- Standard and Custom Options



Operating Frequency Range
10Hz-18GHz



Instrument Enclosure



Input Power
80-240V @
50.60Hz

General Specification

Attenuators Ranges	0 to 30dB in 1dB steps (standard) 0 to 30dB in 0.25dB steps 0 to 60dB in 1.0dB steps 0 to 60dB in 0.25dB steps
RF Output Connector	SMA Female
Front Panel	Local/Remote Control LCD Display Attenuation Control RF Output Mute
Rear Panel	RF Output On/Off switch IEC AC Power Connector AC Power Switch & AC Fuse
Operating Temperature	-10+50C
Specification Temperature	+25C
Input Power	80-240V @ 50/60Hz
Instrument Size	14.6 (370) x 4.4 (110) x 11.8 (300) ins. (mm) plus Carry / Tilt handle
Impedance	50 ohm



General Specification				
Model Number	Frequency Range	Output Power (dBm)	Noise Density (dBm/Hz)	Output Flatness (+/-dB)
RNG-1601	10Hz-20KHz	13	-30	0.5
RNG-1603	10Hz-500KHz	13	-44	0.5
RNG-1605	10Hz-10MHz	13	-57	0.8
RNG-1607	100Hz-100KHz	13	-67	1.0
RNG-1608	100Hz-500MHz	10	-77	1.5
RNG-1609	100Hz-1GHz	10	-80	2.0
RNG-1610	100Hz-1.5GHz	10	-82	2.0
RNG-1612	1MHz-2GHz	0	-93	2.5
RNG-1613	10MHz-2.5GHz	10	-84	1.5
RNG-1624	2GHz-4GHz	-10	-103	2.5
RNG-2618	2GHz-18GHz	-20	-122	3.0
RNG-1801	500Hz-20KHz	30	-13	2.0
RNG-1803	500Hz-500KHz	30	-27	2.0
RNG-1805	500Hz-10MHz	30	-40	2.0
RNG-1807	250KHz-100MHz	30	-50	2.0
RNG-1808	10MHz-200MHz	30	-53	2.0
RNG-1809	10MHz-300MHz	30	-55	2.0
RNG-1810	2MHz-500MHz	30	-57	2.0
RNG-1811	5MHz-1GHz	30	-60	3.0

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

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