

# NOIZEG BASEBAND NOISE SOURCES



## NOIZEG OUTPUT CHARACTERISTICS

FREQUENCY RANGE	MODEL	NOISE OUTPUT LEVEL				
		mV/BAND	$\mu\text{V}/\sqrt{\text{Hz}}$	dBm/BAND	dBm/Hz	ENR(dB)
100Hz TO 20kHz	NZG-5-20K	5	35.5	-43.8	-86.8	87.2
	NZG-10-20K	10	70.8	-37.8	-80.8	93.2
	NZG-25-20K	25	177.9	-29.8	-72.8	101.2
	NZG-50-20K	50	355.0	-23.8	-66.8	107.2
	NZG-100-20K	100	708.3	-17.8	-60.8	113.2
	NZG-150-20K	150	1059.8	-14.3	-57.3	116.7
100Hz TO 100kHz	NZG-5-100K	5	15.8	-43.8	-93.8	80.2
	NZG-10-100K	10	31.6	-37.8	-87.8	86.2
	NZG-25-100K	25	79.5	-29.8	-79.8	94.2
	NZG-50-100K	50	158.5	-23.8	-73.8	100.2
	NZG-100-100K	100	316.4	-17.8	-67.8	106.2
	NZG-150-100K	150	473.4	-14.3	-64.3	109.7
100Hz TO 500kHz	NZG-5-500K	5	7.1	-43.8	-100.8	73.2
	NZG-10-500K	10	14.1	-37.8	-94.8	79.2
	NZG-25-500K	25	35.5	-29.8	-86.8	87.2
	NZG-50-500K	50	70.8	-23.8	-80.8	93.2
	NZG-100-500K	100	141.3	-17.8	-74.8	99.2
	NZG-150-500K	150	211.4	-14.3	-71.3	102.7
100Hz TO 1.0MHz	NZG-5-1M	5	5	-43.8	-103.8	70.2
	NZG-10-1M	10	10	-37.8	-97.8	76.2
	NZG-25-1M	25	25.1	-29.8	-89.8	84.2
	NZG-50-1M	50	50.1	-23.8	-83.8	90.2
	NZG-100-1M	100	100	-17.8	-77.8	96.2
	NZG-150-1M	150	149.7	-14.3	-74.3	99.7
100Hz TO 2.0MHz	NZG-5-2M	5	3.5	-43.8	-106.8	67.2
	NZG-10-2M	10	7.1	-37.8	-100.8	73.2
	NZG-25-2M	25	17.8	-29.8	-92.8	81.2
	NZG-50-2M	50	35.5	-23.8	-86.8	87.2
	NZG-100-2M	100	70.8	-17.8	-80.8	93.2
	NZG-150-2M	150	106	-14.3	-77.3	96.7
100Hz TO 5.0MHz	NZG-5-5M	5	2.2	-43.8	-110.8	63.2
	NZG-10-5M	10	4.5	-37.8	-104.8	69.2
	NZG-25-5M	25	11.2	-29.8	-96.8	77.2
	NZG-50-5M	50	22.4	-23.8	-90.8	83.2
	NZG-100-5M	100	44.7	-17.8	-84.8	89.2
	NZG-150-5M	150	66.7	-14.3	-81.3	92.7

## DESCRIPTION

The NOIZEG Noise Source Series is a family of baseband noise sources designed primarily for applications involving simulation and security in commercial communication systems. NOIZEG Noise Sources can simulate spread spectrum signals to see how the device under test performs in real world conditions. The sources can also simulate a wide variety of environmental conditions to predict how they will affect radar system operation. NOIZEG Noise Sources are also being used as random word generators to offer a greater level of security in wireless systems.

## SPECIFICATIONS

- Operating Temperature: 0 to +70°C
- Storage Temperature: -60 to +150°C
- Supply Voltage: +15 VDC
- Temperature Stability: 0.05 dB/°C
- Output Impedance: 600 ohms
- Peak Factor: 5:1

## APPLICATIONS

- Signal simulation in spread spectrum systems (CDMA)
- Environmental simulation (hail, rain or wind shear) in radar system
- Security/digital encryption
- Digital video testing