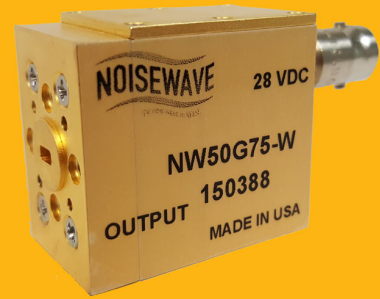




## PRECISION WAVEGUIDE CALIBRATED NOISE SOURCES



The NW-W noise sources cover all major millimeter waveguide bands with high output, excellent flatness and ripple-free response. Utilizing millimeter wave noise diodes screened for superior noise characteristics and a microstrip antenna approach, the NW-W is a more stable noise source and a significantly more reliable unit than dated approaches currently on the market. Designed for both built-in test and laboratory application, these units can also replace outdated gas tube noise sources. Models are available up to 110 GHz (W-band). Applications include Noise figure measurement, millimeter wave radiometers, automotive radar as well as research and development in modern high frequency broadband wireless communication systems.

Custom units available

Specifications:

Input power: +28 Vdc at 30mA max  
 Noise rise and fall times: Less than 1uS  
 Noise Output Variation: <0.01 dB/°C, <0.1 dB/%V  
 Operating Temperature: 0°C to +85°C

MODEL	FREQUENCY RANGE (GHz)	OUTPUT ENR (dB) Min.	FLATNESS (dB)	Typical VSWR	Waveguide
NW26.5G40-W	26.5 - 40	15	+/- 0.75 max	1.3:1 *	WR-28
NW30G50-W	35 - 50	15	+/- 1.50 max	1.3:1 *	WR-22
NW40G60-W	40 - 60	15	+/- 2.0 max	1.6:1 *	WR-19
NW50G60-W	50 - 60	15	+/- 2.0 max	1.6:1 *	WR-19
NW50G75-W	50 - 75	15	+/- 2.0 max	1.6:1 *	WR-15
NW60.4G65.4-W-ISO	60.4 - 65.4	20	+/- 1.5 max	1.6:1 *	WR-12
NW75G83-W-ISO	75 - 83	20	+/- 3.0 max	1.6:1 *	WR-12
NW75G110-W	75 - 110	15	+/- 5.0 max	1.6:1 *	WR-10

\* Maximum VSWR with Isolator – option ISO

### OPTIONS:

ISO: Output Isolator  
 SMA: SMA female bias connector  
 15: +15 Vdc input power

NoiseWave offers additional standard models as well as custom designs. Contact the factory to discuss your specific requirements.

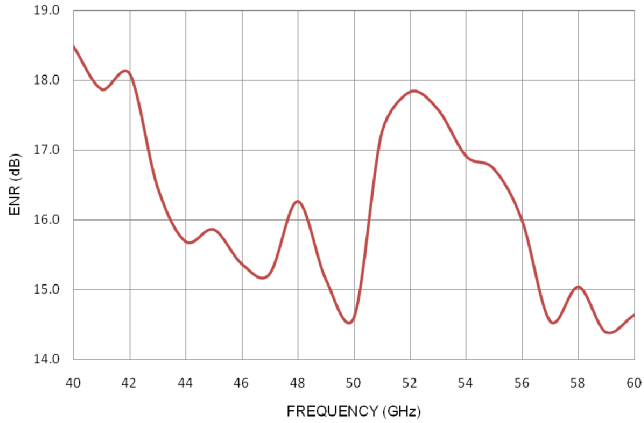
Phone: 973-386-1119  
 Fax: 973-386-1131  
 E-mail: [info@noisewave.com](mailto:info@noisewave.com)  
 Website: <http://www.noisewave.com>

REV: A  
 9/2016

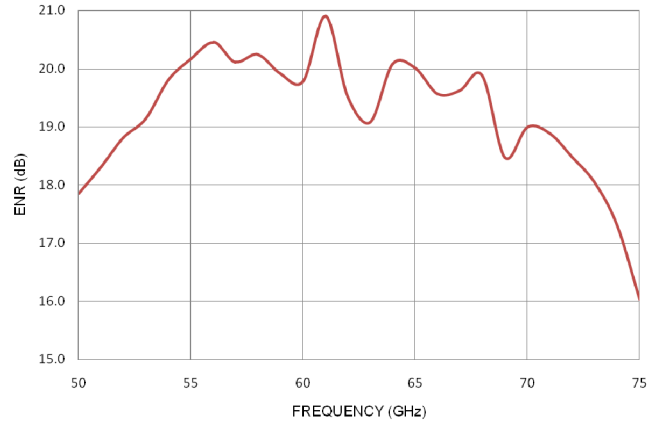


# PRECISION WAVEGUIDE CALIBRATED NOISE SOURCES

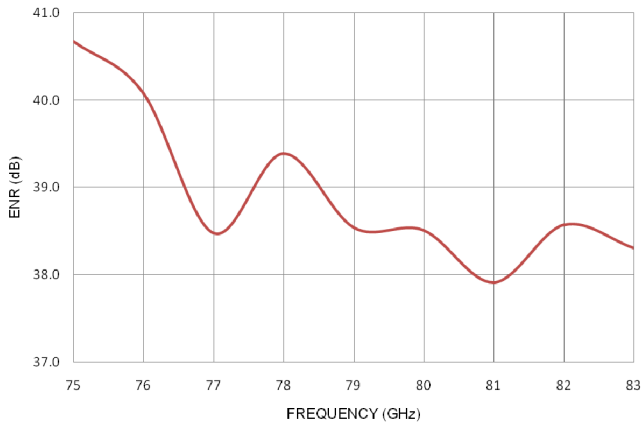
**NW40G60-W - Typical ENR**



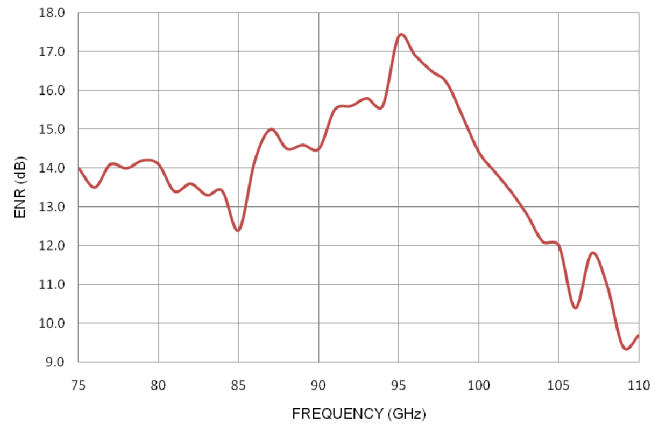
**NW50G75-W - Typical ENR**



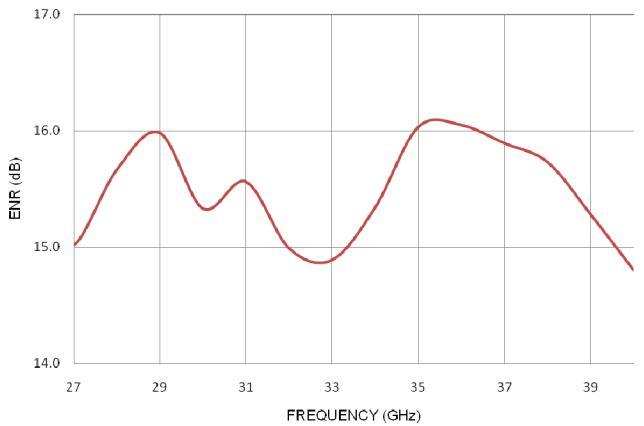
**NW75G83-W - Typical ENR**



**NW75G110-W-ISO - Typical ENR**



**NW26.5G40-W - Typical ENR**



**NW60.4G65.4-W - Typical ENR**

