



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 Designed for both built-in test and laboratory application, these units can also replace outdated gas tube noise sources.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 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
NW33G50-W	33 - 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	+/- 2.5 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

Narrow Band Optimized Units are available on Request

* Maximum VSWR with Isolator – option ISO

** to 105 GHz

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.

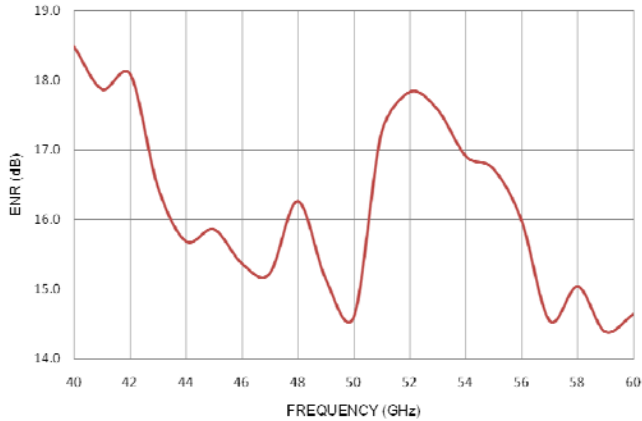
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REV: B
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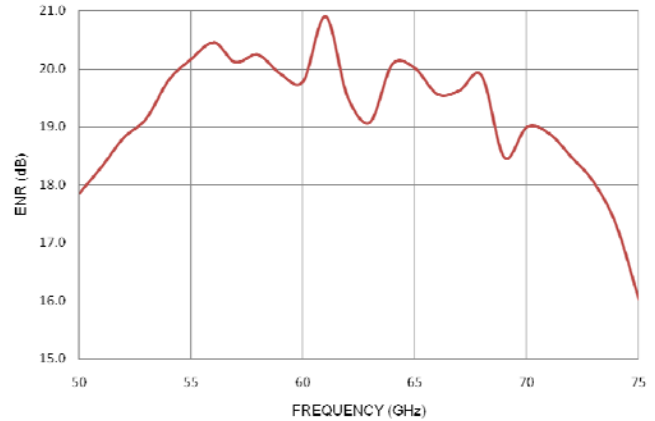


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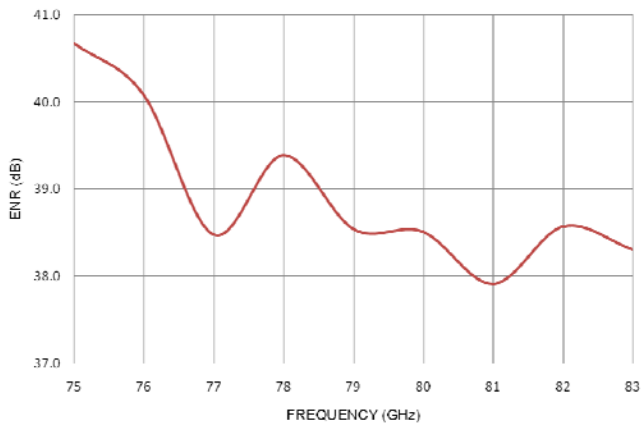
NW40G60-W - Typical ENR



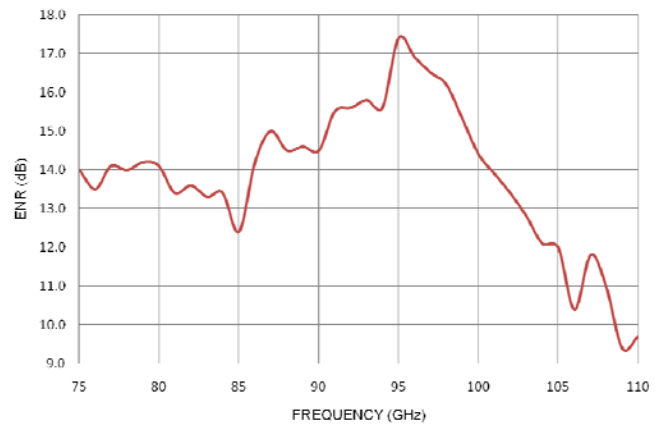
NW50G75-W - Typical ENR



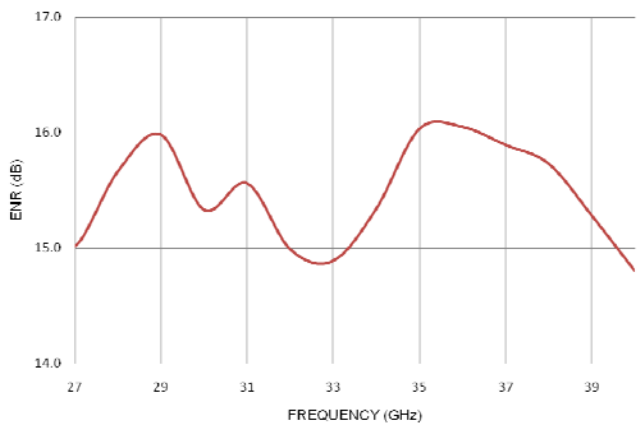
NW75G83-W - Typical ENR



NW75G110-W-ISO - Typical ENR



NW26.5G40-W - Typical ENR



NW60.4G65.4-W - Typical ENR

