



Picture is representative only

# NW54G-ATE

## Precision Broadband Noise Generator



## **NW54G-ATE Broadband Precision Noise Generator**

The NW54G-ATE series is a rugged, multipurpose noise instrument suitable for many applications. It provides a high level, broadband, white Gaussian noise output. NoiseWave's custom built, broadband amplifiers are used to achieve useful noise power levels while maintaining the integrity of the noise output. These linear, high output, amplifiers produce a noise output with superior flatness, Gaussian distribution, and the highest possible crest factor. The noise level can be precisely controlled for economical bit error rate and other types of testing. The NW54G-ATE is seamlessly controlled remotely by an Ethernet connection and computer application and features a modern rugged touchscreen display.

### **Applications:**

- High Speed Ethernet testing
- Receiver Intolerance test
- BER
- Component testing
- Random Jitter, RJ generation
- Radar
- Jamming simulation
- Wireless testing
- Ultra-High Gbps Testing

## Specifications: NW54G-ATE

Specifications	
Frequency Range:	1 GHz to 54 GHz
Output Power:	-20 dBm min
Noise Flatness:	$\pm 4.5$ dB max
Noise Attenuator:	60 dB in 1 dB Steps
Crest Factor:	5:1 min

  

Control and Interface	
Local interface:	Front panel keypad & display
Remote interface:	Ethernet
Output Connector:	V (f) 1.85mm

  

General Specifications	
Output:	White Gaussian Noise
Warranty:	3 years
AC Power:	Standard Line Voltages
Operating Temperature:	-20 to +75 deg C
Size:	17" W x 5.25" H x 12.5" max. D rack mountable

Options	
0.25N:	Additional 0.25 dB step Noise Attenuator 60.75 dB overall
C:	Combiner for input signal
SW:	Switch up to 4 Noise Bands
SA:	60 dB Signal attenuator in 1 dB steps*
0.25S:	Additional 1 dB signal step attenuator 60.75 dB*
DO:	Differential Outputs
-10 dBm:	Increase Output Power to -10 dBm, flatness increases by $\pm 0.5$ dB

\* Requires Option C

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