



## OVERVIEW

The NS-3 Broadband RF Noise Generator provides an extremely flat AWGN (Additive White Gaussian Noise) signal from 5 to 2150 MHz. The output level adjusts in 0.1 dB steps over a 30 dB range.

The bench-top configuration is standard and an optional two-unit rack enclosure is available. The RS232 and USB remote control interfaces simplify its use in automated test and factory ATE environments.

The NS-3's combination of range, versatility, and value make it the ideal general purpose broad-spectrum signal source for bench and ATE applications.

## NS-3 RF Noise Source for Bench and ATE Test Applications

### BENEFITS

- 5 MHz to 2.15 GHz RF noise generator
- 30 dB of output level adjustment in 0.1 dB steps
- On/off modulation at 3 selectable rates
- Remote control via RS232 or USB

### OPTIONS

- Rack-mount kit
- Rear panel RF output connector (SMA, N, BNC or F)
- 75 to 50 Ohm matching pad
- External RF amplifier
- External band-pass filters, inquire for frequencies

### STANDARD ACCESSORIES

- AC line cord
- 30 inch patch cable

## FRONT VIEW



## REAR VIEW



# NS-3

RF NOISE SOURCE



## FUNCTIONS

- RF on/off
- Adjustable level (keypad, arrows, adjustable step size)
- Selectable reference (max down, min up, reference pt.)
- On/off pulse modulation (slow, medium, fast, none)
- Standard SCPI language remote control

## SPECIFICATIONS

- **Frequency**
  - 5 MHz to 2.15 GHz
- **Output signal**
  - White Gaussian Noise (AWGN)
- **Output level**
  - -120 to -90 dBm/Hz
- **Impedance**
  - 75 Ohm standard (50 Ohm optional)
- **Displayed level**
  - Relative
- **Remote control**
  - RS232
- **Level adjustment**
  - 30 dB in 0.1 dB steps
- **Input power**
  - (120/240 VAC)
- **Output connector**
  - BNC or F standard (N optional)

## Size and weight

- 7.3"W x 3.7"H x 9.25"D, 4.5 lbs
- 18.5cm x 9.4cm x 23.5cm, 2.04 kg

## MAX OUTPUT LEVEL

- -90 dBm/Hz
- +13 dBmV @ 280 KHz bandwidth
- +26 dBmV @ 5.2 MHz bandwidth
- -17 dBm @ 20 MHz bandwidth
- +2 dBm total power

## FLATNESS

- +/- 1.0 dB 5 MHz to 1 GHz
- +/- 2.0 dB 5 MHz to 2 GHz
- Usable to 2.15 GHz

