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

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 remote control interface simplifies 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.

Applications
• Digital signal simulation
• Active device loading
• Carrier-to-noise generation
• Interference testing
• RF leakage
• Frequency response testing
• Intermodulation testing
• Insertion loss
FEATURES
• 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

STANDARD ACCESSORIES
• AC line cord
• 30” 75 Ohm male BNC patch cable

OPTIONS
• Rack-mount kit
• Rear panel N connector
• BNC 50 Ohm matching pad
• External amplifier, 35 dB gain
• External band-pass filters, inquire for frequencies

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
Output level .............................. –120 to –90 dBm/Hz
Impedance .............................. 75 Ohms
Displayed level .......................... Relative
Remote control ......................... RS232
Level adjustment ...................... 30 dB in 0.1 dB steps
Input power ................................ (120/240 VAC)
Output connector ...................... BNC
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