

NPRT 2200™

Noise Power Radio Test Set



NPR Testing For HFC

Active Components

The NPRT 2200™ comes in a compact two-rack unit enclosure that is well suited for laboratory and factory ATE environments. The NPRT 2200's low cost and unsurpassed accuracy provide an unprecedented value.

Applications

- Quantity intermodulation distortion
- Determine dynamic range
- Amplifiers
- Optical links

Benefits

- Easy to use
- Fast
- Accurate and repeatable
- High value / low cost

The NPRT 2200™ measures the NPR of a device across a range of power levels. This test quantifies intermodulation distortion and determines the dynamic range of optical transmitters, amplifiers and other active HFC network devices.

The included PC software uses predefined test setups to run a "Power Sweep" series of NPR measurements and graph the results. The measurements are compared to a threshold value to determine the acceptable operating power or dynamic range of the device. Results may be stored on the PC for further analysis and the graphs may be printed.

The NPRT 2200 inserts calibrated levels of White Gaussian Noise (WGN) through a Device Under Test (DUT), and then measures the noise level at a frequency where a notch filter is located.

The NPR is the ratio of the output power without the notch compared to the power with the notch filter. A graph of NPR versus input power illustrates the linear dynamic range and intermodulation distortion characteristics of the DUT.

FEATURES

- Complete unit: source and receiver
- Controlled from front panel or PC
- “Power Sweep” graph printable from PC
- Compact two rack unit height enclosure
- Ideal for laboratory or factory ATE

SPECIFICATIONS

Power level	-50 to +10 dBm
Passband flatness	+/- 1 dB
Noise source accuracy	+/- 0.3 dB
Noise source resolution	0.05 dB
Receiver accuracy	+/- 0.3 dB
Dimensions	19” x 3.5” x 19”
Power	120/230 VAC 60/50 Hz
Impedance	75 Ohm
Return loss	Rx >20 dB, Tx >12 dB

CONFIGURATIONS

Supports up to 3 frequency ranges and up to 3 notch filters. Ranges and notch filters are separately selectable for a total of 9 combinations.

Freq Range	Stop Band
5 to 42 MHz	>50 dB @ 47 MHz
5 to 65 MHz	>50 dB @ 75 MHz

Notch Filter	Depth
21.4 MHz	>70 dB
30.5 MHz	>70 dB

Others available upon request.

