NPRT 2200
RETURN PATH NOISE POWER RATIO TEST SET

OVERVIEW

The NPRT 2200 measures the noise power ratio 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 under test. Results can be stored on the PC for further analysis and the graphs printed.

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

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 combined low cost and unsurpassed accuracy makes for an excellent value proposition.

APPLICATIONS

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

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

BENEFITS

- Easy to use
- Fast
- Accurate and repeatable
- High Value at a low cost

NPRT 2200
RETURN PATH NOISE POWER RATIO TEST SET

SOURCE SPECIFICATIONS
- Total Power
  - -50 to +10 dBm
- (-1.25 to +58.75 dBmV)
- Accuracy
  - +/- 0.3 dB
- Resolution
  - 0.05 dB
- Return Loss
  - > 12 dB
- Impedance
  - 75 Ohm

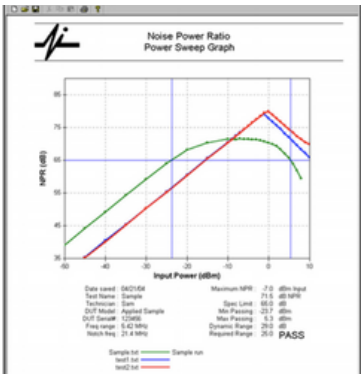
RECEIVER SPECIFICATIONS
- Input Power
  - -78 to +10 dBm
  - (-29.25 to +58.75 dBmV)
- Accuracy
  - +/- 0.3 dB
- Return Loss
  - > 20 dB
- Impedance
  - 75 Ohm

GENERAL SPECIFICATIONS
- Dimensions
  - 19”W x 3.5”H x 19”D
  - (48.3 x 8.9 x 48.3 cm)
- Power
  - 120/230 VAC 60/50 Hz
- Computer Interface
  - USB & RS-232
- Warranty
  - 12 month limited

STANDARD ACCESSORIES
- AC Line Cord
- PC data transfer cable
- Operations Manual

CONFIGURATION
Supports up to 4 frequency ranges (5 to 300 MHz) and up to 4 notch filters (up to 150 MHz). Ranges and notch filters are separately selectable for a total of 16 possible combinations.

Frequency Ranges	Notch Filters
5 to 42 MHz	10.7 MHz
5 to 50 MHz	21.4 MHz
5 to 65 MHz	25.0 MHz
5 to 75 MHz	27.5 MHz
5 to 85 MHz	30.5 MHz
5 to 100 MHz	35.0 MHz
5 to 120 MHz	41.0 MHz
5 to 186 MHz	45.0 MHz
5 to 204 MHz	48.0 MHz
5 to 234 MHz	50.0 MHz
5 to 300 MHz	60.0 MHz
32 to 65 MHz	75.0 MHz
	80.0 MHz
	100.0 MHz
	117.0 MHz
	150.0 MHz
	160.0 MHz



2431 Directors Row
STE F
Indianapolis, IN 46241

APPLIED INSTRUMENTS

737-800-1982
support@appliedin.com
appliedinstruments.com