NOISECOM

UFX7110

The Noisecom UFX7110 is a programmable, multi-purpose noise generator from the UFX7000 Series, operating in the 100 Hz to 1.5 GHz frequency range. Designed for RF, microwave, and telecommunications testing, it outputs symmetrical White Gaussian noise with a typical VSWR of 1.5:1 and features a standard 50-ohm SMA female output connector. The instrument provides a 0 to 127 dB step attenuator with 1 dB step resolution (0.1 dB steps optional) and supports both local manual control and remote programming via a standard IEEE-488 (GPIB) interface.

SPECIFICATIONS

General

Display	4 x 20 character LCD

Physical

Power Supply	115 VAC, 60 Hz standard; 230 VAC, 50 Hz optional
Operating Temperature	0 to +50 °C °C
Dimensions (W×H×D)	431.8 x 133.4 x 317.5 mm (17 in x 5.25 in x 12.5 in) mm

RF Output & Noise Performance

Frequency Range	100 Hz to 1.5 GHz
Output Power	+10 dBm
Spectral Density	-81.8 dBm/Hz
Flatness	±2.0 dB
Crest Factor	5:1 (14 dB) minimum
Output VSWR	1.5:1 (typical)
Output Impedance	50 ohms (standard)
RF Output Connector Type	SMA female

Attenuator & Level Control

Attenuation Range	0 to 127 dB
Attenuation Resolution	1 dB (standard), 0.1 dB (optional)

Remote Control & Programmatic Interface

Remote Control Interface	IEEE-488 (GPIB)
Local Control	Front panel keypad and display

Power & Electrical Requirements

Standard AC Input Voltage	115 VAC, 60 Hz
Optional AC Input Voltage	230 VAC, 50 Hz

Physical & Mechanical Specifications

Form Factor	Benchtop chassis
Chassis Width	17 in. (431.8 mm)
Chassis Height	5.25 in. (133.4 mm)
Chassis Depth	12.5 in. (317.5 mm)

Available Options & Custom Configurations

Option 01	BNC female connector
Option 03	230 VAC, 50 Hz input voltage
Option 04	Standard 19-inch rackmount ears

Options

Option 02	75 Ohm output impedance
Option 09	Custom frequency, power, or flatness configuration
Option 11	0 to 127.9 dB attenuation in 0.1 dB steps

TECHNOLOGY

Symmetrical White Gaussian Noise Generation

APPLICATIONS

RF and microwave testing, wireless communications development, signal-to-noise ratio (SNR) calibration, receiver testing