

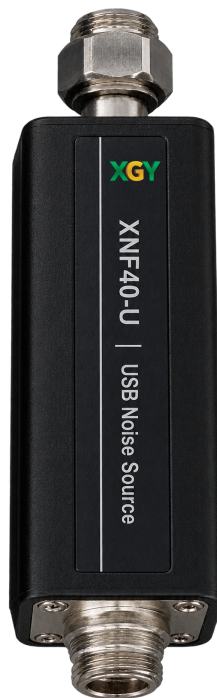
XNF40-U

USB Intelligent Noise Source

At a Glance

The XNF40-U generates random, continuous spectral signals for noise figure measurements. It covers 10 MHz to 40 GHz with an excess noise ratio (ENR) range of 12 dB to 19 dB and a 2.4 mm male RF output.

USB control supports the USB-TMC protocol and connection to Windows and Linux test instruments or a computer. Electronic storage of frequency and ENR data pairs enables automatic loading into a noise figure measurement instrument. A built-in digital temperature sensor supports real-time temperature correction.



Main Features

- **USB control**

The USB interface supports the USB-TMC protocol, Windows and Linux test instruments, and computer-controlled operation.

- **Stored calibration data**

Electronic memory stores frequency and ENR data pairs. Automatic identification and plug-and-play operation load the ENR table into a noise figure measurement instrument, improving measurement speed.

- **Temperature correction**

The built-in digital temperature sensor detects changes in ambient temperature in real time. Temperature correction of noise figure measurements improves measurement accuracy.

- **Measurement systems**

The noise source provides a noise power standard for noise figure measurement systems and can also be used independently as a calibration source.

Technical Specifications

Parameter	XNF40-U
Frequency range	10 MHz to 40 GHz
Excess noise ratio (ENR) range	12 dB to 19 dB
Output port VSWR, 10 MHz to 18 GHz	< 1.35:1
Output port VSWR, 18 GHz to 40 GHz	< 1.45:1
RF output interface	2.4 mm male
Driver interface	USB bus driver interface
Dimensions (W × H × D)	(38 ± 1.5) mm × (28 ± 1.0) mm × (130 ± 1.5) mm
Weight	(170 ± 10) g

Standard Accessories

The standard package includes one 2.0 m USB cable for drive and communication, one coaxial adapter for connecting the noise source output to a measurement host input, one ENR calibration data set, and one product certificate of conformity.

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