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Find the *NoiseCom VXI7110* at our website: ***Click HERE***

VXI7000 series

10 Hz to 40 GHz

10

VXIBUS PROGRAMMABLE NOISE GENERATORS FOR ATE



The *VXI7000 Series* instruments contain a Noise Com amplified noise source that is tuned to provide the best flatness at the instrument output. The amplifier is optimized to deliver an unsaturated output with a Gaussian amplitude distribution. Noise output power level can be adjusted from 0 to 127 dB in 1 dB (and optionally 0.1 dB) steps.

The output state is controlled by an RF switch. In the standby state, the noise is terminated into an RF load and in the on state it is directed to the output connector.

The instrument's flexible architecture allows many options to be specified:

Switched filter bank: Allows up to four filters in the noise path. The filters can be specified in any combination of bandpass, lowpass, highpass, or notch. A thru line and set of terminations (RF loads) are also included.

Output combiner: Allows the user to inject a signal and add a controlled amount of noise.

Signal attenuator: Available in 0.1 or 1 dB steps to 127 dB.

General Specifications:

Output	White Gaussian noise
Attenuator	0 to 127 dB in 1 dB steps 0 to 79 dB above 2 GHz (0.1 dB steps optional)
Impedance	50 ohms (others optional)
Typical VSWR	1.5:1
Standard ouput connector	SMA female (K female for VXI7240)
Dimensions	2.4 in. wide x 9.2 in. high x 13.4 in. deep Double slot, C-size
Power	+5V at 1A +12V at 1A +24V at 1A
Operating temperature	0 to +55°C

Specifications subject to change without notice.

Applications:

- Automated test equipment (ATE)
- VXIbus
- Jamming systems

NOISE/COM

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VXI7100, VXI7200 SERIES

MODEL	FREQUENCY RANGE	OUTPUT CHARACTERISTICS POWER (dBm)	dBm/Hz	FLATNESS(dB)	μV/√Hz
VXI7101	10 Hz - 20 kHz	+13	-30	±0.5	7071
VXI7103	10 Hz - 500 kHz	+13	-44	±0.5	1414
VXI7105	10 Hz - 10 MHz	+13	-57	±0.5	316
VXI7107	100 Hz - 100 MHz	+13	-67	±0.75	100
VXI7108	100 Hz - 500 MHz	+10	-77	±1.0	31.6
VXI7109	100 Hz - 1000 MHz	+10	-80	±1.5	22.4
VXI7110	100 Hz - 1500 MHz	+10	-82	±1.5	18.2
VXI7111	1 GHz - 2 GHz	+10	-80	±1.5	22.4
VXI7112	1 MHz - 2 GHz	0	-93	±2.0	5.01
VXI7124	2 GHz - 4 GHz	-10	-103	±2.0	1.58
VXI7218	2 GHz - 18 GHz	-20	-122	±2.0	0.18
VXI7240	2 GHz - 40 GHz	-20	-126	±4.0	0.11

OPTIONS

Option Number	Description
V7opt01	N female output connector
V7opt02	BNC female output connector
V7opt03	0 to 127.9 dB noise attenuator in 0.1 dB steps instead of 127 dB in 1 dB steps†
V7opt04	Switch elements, 2 x SP6T for 4 subband filters, 1 thrupath, 1 termination (filters are optional)
V7opt05	N/A
V7opt06	75 ohm output impedance (6 dB loss in the noise path and 12 dB loss in the signal path)
V7opt07	Combiner for input signal (6 dB loss in noise and signal paths)
V7opt08	Double output terminals (switched)
V7opt09	Special configuration
V7opt10	N/A
V7opt11	N/A
V7opt12	0 to 127 dB signal attenuator in 1 dB steps*
V7opt13	0 to 127.9 dB signal attenuator in 0.1 dB steps†

†N/A for VXI7218 and VXI7240 (0 to 79.9 for VXI7124)
*V7opt07 must also be included when ordering this option, 0 to 79 dB above 2 GHz

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