

100MHz to 20GHz high power RF noise source (benchtop/1U 19" rack instrument)

Description

HPNS020 is a high power Gaussian white noise source which operates over a frequency range from 0.1GHz to 20GHz and provides high noise power of ENR up to 60dB. Spectrum Magnetics LLC provides EBR calibration in 1GHz increments with low VSWR. The benchtop /1U rack of HPNS020 can operate under AC with optional +28V BNC female connector.

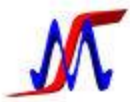
Feature

- 0.1GHz~20GHz frequency range
- Output ENR >50dB at 1GHz
- Flatness:<3dB at whole range
- 2.92mm male connector
- DC/AC voltage
- Modulation

Application

- Noise figure measurements
- Signal to noise ratio (SNR) measurement
- Bit error rate (BER) test
- EM environment simulation
- Measurement equipment
- Jamming

Description	Min	typ	Max	Option*	Unit
Frequency range at -3dB	0.1		22		GHz
Output ENR at 1GHz	48	50	52	>60	dB
Adjusted ENR range				>40	dB
Ripple in 1GHz interval			0.3		dB
Flatness of ENR			3		dB
Short time output stability for 15min		0.5		0.1	dB
long time output stability for 15mi/8hour		1.5		*	dB
Rise/Fall time for square modulation				5	ns
Impedance		50			ohm
Calibration frequency interval				1	GHz
RF Connector		2.92mm/K			
VSWR			1.9:1	<1.2:1	
Input Voltage (AC)		110/220		BNC 28	V
Operating temperature	0		60		C
Power consumption		10			W
Dimension		1.96 ×9.05×7.48 (H×W×D)		1U rack	Inch ³
*please ask specifications with the option					



Order information

Order code				0		1		2		3		4		5		6		7		
H	P	N	S	0	2	0	-	-	1	9	-	2	-	1	-	1	-	1	-	1

0	high frequency at 3dB	>20GHz
	Code	020

1	ENR (dB)	Standard			Optional
	code	50	40	30	other*
		50	40	30	00

2	VEWR	1.9:1			Customized**
	code	19			00

3	connector	2.93mm/K male			
	Code	2			

4	Adjustable ENR	Fixed			Variable
	Code	1			2

5	Power supply	AC 110V/220V			DC 28V
	code	1			2

6	Modulation	No			Yes***
	code	1			2

7	Package	Benchtop		1U rack		Customized
	Code	1		2		0

- * from 20 dB to 60dB
- ** low to 1.2:1, ENR can't be guaranteed 50 dB
- *** ENR is peak value. Customer has to define the modulating frequency

