

# 100MHz~70 GHz high power RF noise source (benchtop/1U 19" rack)

## Description

HPNS110 is a high power Gaussian white noise source which operates over a frequency range from 0.1GHz to 110GHz and provides high noise power of ENR up to 60dB. Spectrum Magnetics LLC provides calibration optional in 1GHz increments with low VSWR. The benchtop /1U rack of HPNS070. This source can operate under DC with optional +28V BNC female connector.

### Feature

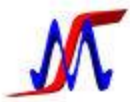
- 0.1GHz~110GHz frequency range
- Output ENR >50dB at 1GHz
- Flatness:<3dB at whole range
- 1mm male connector
- DC voltage
- Modulation

### Application

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

Description	Min	typ	Max	Opt*	Unit
Frequency range at-3dB	0.1		110		GHz
Output ENR at 1GHz	48	50	52	>60	dB
Adjusted ENR range				>40	dB
Ripple in 1GHz interval			0.5		dB
Flatness of ENR			3		dB
Short time output stability for 15min		0.5		<0.1	dB
Short time output stability for 8hour		1.5		*	dB
Rise/Fall time for square modulation				5	ns
Impedance		50			ohm
Calibration frequency				1	GHz
RF Connector	1mm/ W male				
VSWR			1.9:1	<1.2:1	
Input Voltage		5V		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 <sup>3</sup>

\*Please ask for specification with the option



## Order information

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

0	high frequency at 3dB	>110GHz
	Code	110

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

2	VEWR	1.9:1			Customized**
	code	19			00

3	connector	1mm/W male			
	Code	4			

4	Adjustable ENR	Fixed			Variable
	Code	1			2

5	Power supply	AC 110/220V			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

