

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

Description

HPNS070 is a high power Gaussian white noise source which operates over a frequency range from 0.1GHz to 70GHz and provides high noise power of ENR up to 60dB. Spectrum Magnetics LLC provides ENR calibration in 1GHz increments with low VSWR. The benchtop /1U rack of HPNS070 can operate under AC with optional +28V BNC female connector.

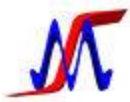
Feature

- 0.1GHz~70GHz frequency range
- Output ENR >50dB at 1GHz
- Flatness:<3dB at whole range
- 1.85mm male connector
- DC/AC 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	0.1		72		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
Long time output stability for 8hour		1.5		*	dB
Rise/Fall time for square modulation				5	ns
Impedance		50			ohm
Calibration frequency interval				1	GHz
RF Connector	1.85mm/ V male				
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 specification with the option					



Order information

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

0	high frequency at 3dB	>70GHz
	Code	070

		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	1.85mm/V male				
	Code	3				
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 19" rack
	Code	1				2

* 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

