

100MHz~70 GHz high power RF noise source module

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 module of this source can operate under +5V with optional +28V BNC female connector.

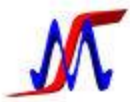
Feature

- 0.1GHz~70GHz frequency range
- Output ENR >50dB at 1GHz
- Flatness:<3dB at whole range
- 1.85mm male connector
- DC voltage
- Modulation

Application

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

Description	Min	Typ	Max	Option*	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 stability for 15mi		0.5		<0.1	dB
Short time stability for 15mi		1.5		0.2	dB
Impedance		50			ohm
Rise/Fall time for square modulation				5	ns
Calibration frequency interval				1	GHz
RF Connector	1.85mm/ V male				
VSWR			1.9:1	<1.2:1	
Input Voltage (DC)		5		BNC 28	V
Operating temperature	0		60		C
Power consumption		10			W
Dimension	104 ×75×18				mm ³
*option will influence other parameter					



Order information

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

0	high frequency at 3dB	>70GHz
	Code	070

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

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	DC 5V	DC 28V with female BNC
	code	3	2

6	Modulation	No	Yes***
	code	1	2

7	Package	module	customized
	Code	3	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

Dimension (unit: mm)

