

100MHz to 10GHz high power RF noise module

Description

HPNS010 is a high power Gaussian white noise source which operates over a frequency range from 0.1GHz to 10GHz 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 +5VDC with optional +28V BNC female connector.

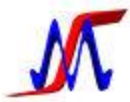
Feature

- 0.1GHz~10GHz frequency range
- Output ENR >50dB at 1GHz
- Flatness:<3dB at whole range
- 3.5mm male connector
- Modulation
- DC voltage

Application

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

Description	Min	typ	Max	Option*	Unit
Frequency range at -3dB	0.1		10		GHz
Output ENR at 1GHz	48	50	52	>60	dB
Adjusted ENR rang				40	dB
Ripple in 1GHz interval			0.3		dB
Flatness of ENR			3		dB
Short time output stability for 15mi		0.5		<0.1	dB
Long time output stability for 8hour		1.5		0.2	dB
Impedance		50			ohm
Rise/Fall time for square modulation				5	ns
Calibration frequency interval				1	GHz
RF Connector	3.5mm/SMA				
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 ×73×18				mm ³
*option will influence other parameter					



Order information

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

0	high frequency at 3dB	>10GHz
	Code	010

		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	3.5mm/SMA male
	Code	1

4	Adjustable ENR	Fixed	Variable
	Code	1	2

5	Power supply	5V	DC 28V
	code	3	4

6	Modulation	No	Yes***
	code	1	2

7	Package	Benchtop	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)

