

100MHz~110 GHz high power RF noise source module

Description

HPNS110 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 +5DC with optional +28V BNC female connector.

Feature

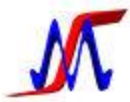
- 0.1GHz~110GHz frequency range
- Output ENR >50dB at 1GHz
- Flatness:<3dB at whole range
- 1mm male connector
- DC voltage
- Modulation

Application

- Noise figure measurement
- Signal to noise ratio (SNR) measurement
- Bit error rate (Bit) 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
Impedance	50				ohm
Ripple in 1GHz interval			0.5		dB
Flatness of ENR			3		dB
Short time output stability for 15min		0.5		<0.1	dB
Output stability for 15mi/8hour		1.5		*	dB
Rise/Fall time for square modulation				5	ns
Calibration frequency interval				1	GHz
RF Connector	1mm/ W male				
Input Voltage (DC)	5			BNC 28	V
VSWR			1.9:1	<1.2:1	
Operating temperature	0		60		C
Power consumption	10				W
Dimension	104 ×73×18				mm ³

*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	-	3	-	1	-	3

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	DC 5V	DC 28V
	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)

