

100MHz to 20GHz high power RF noise source module

Description

HPNS020 is a high power Gaussian white noise source which operates over a frequency range from 0.1GHz to 20GHz 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

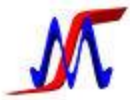
- 0.1GHz~20GHz frequency range
- Output ENR >50dB at 1GHz
- Flatness:<3dB at whole range
- 2.92mm male connector
- DC voltage
- Modulation

Application

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

Description	Min	typ	Max	Opt*	Unit
Frequency range at -3dB	0.1		22		GHz
Output ENR at 1GHz	48	50	52	>60	dB
Adjusted ENR range				40	dB
Ripple in 1GHz interval			0.3		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		0.5	dB
Impedance		50			ohm
Rise/Fall time for square modulation				5	ns
Calibration frequency interval				1	GHz
Output variable				>40dB	dB
RF Connector		2.92mm/K			
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

*Please ask for specification with the option



Order information

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

0	high frequency at 3dB	>20GHz
	Code	020

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

2	VEWR code	1.9:1	Customized**
		19	00

3	connector Code	2.92mm/K male	
		2	

4	Adjustable ENR Code	Fixed	Variable
		1	2

5	Power supply code	DC 5V	DC 28V
		3	2

6	Modulation code	No	Yes***
		1	2

7	Package Code	Module	Customized
		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)

