

100MHz~40 GHz high power RF noise source (benchtop/1U 19" rack instrument)

Description

HPNS040 is a high power Gaussian white noise source which operates over a frequency range from 0.1GHz to 40GHz and provides high noise power of ENR up to 60dB. Spectrum Magnetics LLC provides calibration optional in 1GHz increments with low VSWR. The benchtop /1U rack of HPNS040 can operate under AC with optional +28V BNC female connector.

Feature

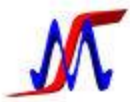
- 0.1GHz~40GHz frequency range
- Output ENR >50dB at 1GHz
- Flatness:<3dB at whole range
- 2.92mm male connector
- DC/AC voltage
- Modulation

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 at -3dB	0.1		42		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		*	dB
Rise/Fall time for square modulation				5	ns
Impedance		50			ohm
Calibration frequency interval				1	GHz
RF Connector		2.92mm/K			
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 for specification with the option



Order information

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

0	high frequency at 3dB	>40GHz
	Code	040

		Standard	Optional
1	ENR (dB)	50	other*
	code	50	00
2	VEWR	1.9:1	Customized**
	code	19	00
3	connector	2.92mm/K male	
	Code	2	
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 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

