

10 MHz to 50 GHz Noise Sources

Broadband Calibrated Noise Sources for Noise Figure Measurements

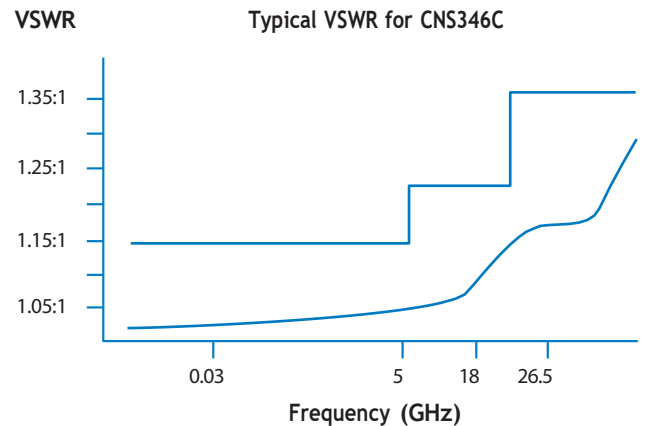
The Spanawave CNS346 Series is designed for precision noise figure measurement applications. The superior VSWR characteristics reduce multiple reflections of the test signals and significantly increase the measurement accuracy of most noise figure set-ups.

The CNS346 Series noise sources have broadband coverage and extremely good temperature and voltage stability, for the finest noise figure meter-compatible laboratory standards. Outputs of 6 dB or 15 dB ENR are available, allowing accurate noise figure measurements up to 20 or 30 dB respectively.

The return loss of the noise sources is measured in both the on and off states and is included in the calibration report provided with each noise source up to 50 GHz. Each noise source is also supplied with calibration data traceable to NIST.

Specifications

Calibration	1 GHz steps
Temperature coefficient	Less than 0.009 dB/°C
Operating temperature	0°C to +55°C
Input power	+28 VDC ±2 VDC at 15 mA typical
VSWR	Less than 1.15:1 from 10 MHz – 5 GHz for units with 5 – 7 dB or 14 – 16 dB ENR
Regulator	Built-in
Voltage coefficient	< 0.002 dB/%ΔV



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Model	Option	RF Connector	Frequency (GHz)	Output ENR (dB)	VSWR (maximum @ on/off)					I (max) (mA)
					0.01 - 5 GHz	5 - 18 GHz	18 - 26.5 GHz	26.5 - 40 GHz	40 - 50 GHz	
CNS346A	001	N Male	0.01 - 18.0	5 - 7	1.15:1	1.25:1				30
	002	7 mm	0.01 - 18.0	5 - 7	1.15:1	1.25:1				30
	100	3.5 mm Male	0.01 - 18.0	5 - 7	1.15:1	1.25:1				30
CNS346B	001	N Male	0.01 - 18.0	14 - 16	1.15:1	1.25:1				30
	002	7 mm	0.01 - 18.0	14 - 16	1.15:1	1.25:1				30
	100	3.5 mm Male	0.01 - 18.0	14 - 16	1.15:1	1.25:1				30
CNS346C		3.5 mm Male	0.01 - 26.5	13 - 17	1.15:1	1.25:1	1.35:1			30
	H01	3.5 mm Male	0.01 - 26.5	min 15	1.15:1	1.25:1	1.35:1			30
CNS346CK40		2.4 mm Male	0.10 - 40.0	10 - 17	1.25:1	1.30:1	1.40:1	1.50:1		30
CNS346CK01		2.4 mm Male	0.10 - 50.0	7 - 21	1.50:1	1.50:1	1.75:1	2.00:1	2.50:1	30

Custom solutions are available, please contact us with your requirements.

* Specifications subject to change without notice.

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