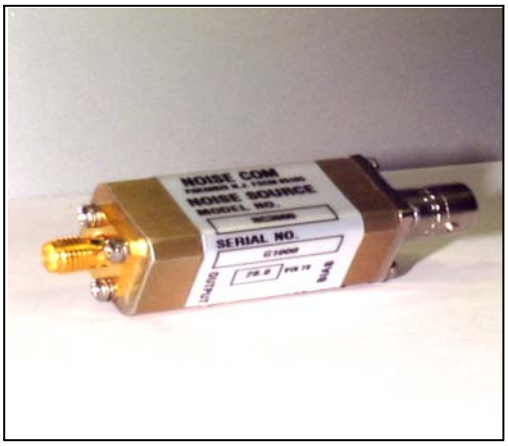
CALIBRATED COAXIAL NOISE SOURCES

NC 3000 Series
10 kHZ to 18 GHz

Product Data Sheet



FEATURES

- Noise output rise and fall times less than 1 µs.
- VSWR less than 1.35:1 for units with 15.5 dB ENR.
- Noise output variation with temperature less than 0.01 dB/˚C.
- Noise output with voltage less than 0.1 dB/1%ΔV.
- Operating temperature –55 to + 85˚C.
- Storage temperature –65 to 125˚C.
- Input power +28 VDC at 30 mA max.

DESCRIPTION

Noise Com's NC 3000 Series calibrated noise sources embody excellent stability with temperature and voltage. They are well suited to receiver testing, noise figure measurements, and any application requiring broad bandwidth and fast switching time.

The NC 3000 Series includes the NC 3100 units that feature 15.5-dB ± 0.75 dB ENR output for noise-figure meters, and the NC 3200 Series high-output noise sources that feature output between 26 and 35 dB ± 1 dB ENR for radar and satellite communications system testing.

Like all Noise Com noise sources, the NC 3000 Series features hermetically sealed noise diodes with 168-hr. burn-in. Each noise sources is supplied with calibration data for the full frequency band.

15.5 dB NOISE FIGURE METER COMPATIBLE TYPES

Mode	Frequency Range (GHz)	Noise Output ENR (dB)	Maximum VSWR ON	Calibration Frequencies
NC3201Y	10 kHz-1 *	15.5 ± .75	1.30:1	100 Khz, 10, 100, 500 & 1000 MHz.
NC3101	0.01 –8	15.5 ± .75	1.30:1	
NC3102	0.01 –12	15.5 ± .75	1.30:1	10 MHz, 100 MHz, 1 GHz
NC3103	1 –12	15.5 ± .75	1.30:1	& 1 GHz steps
NC3104	1 –18	15.5 ± .75	1.35:1	
NC3105	12 –18	15.5 ± .75	1.35:1	1 GHz steps
NC3108	0.1 –18	15-16 ± 1	1.5:1	

**not compatible with noise figure meter.*

OPTIONS

1. Packages A, B, C, F, G, H, J can be supplied with threaded mounting holes.
2. Alternate sex of output connector.
3. +15 VDC input voltage. (*Not available on all sources, consult factory*).
4. +28 VDC regulation. Stabilized output ± 2 V variation. (*Consult factory for package dimensions*).
5. TTL control "high" is on. (Add suffix T.) (*Option 5 cannot be combined with regulation +28v, +15v. Consult factory for more information).*
6. 6 ± 0.5 dB ENR (Add suffix /6.)

HIGH NOISE OUTPUT TYPES

Model	Frequency Range (GHz)	Noise Output		
		ENR (dB)	Flatness (dB)	Calibration Frequencies
NC 3201	10 kHz - 1	30-35	± 1	10, 100, 500 & 1000 MHz
NC 3202	0.01 – 0.6	30-35	± 1	10,100 & 600 MHz
NC 3203	1 – 2	30-35	± 1	1, 1.5 & 2 GHz
NC 3204	2 – 4	30-35	± 1	
NC 3205	4 - 8	30-35	± 1	1 GHz steps
NC 3206	8 - 12	28-33	± 1	
NC 3207	12 – 18	26-32	± 1	
NC 3208	1 - 18	26-32	± 1	
NC 3208 S	1 - 18	27-32		

For more information about Noise Com's products, applications, or a current listing of sales offices visit Noise Com on the web at, www.noisecom.com

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