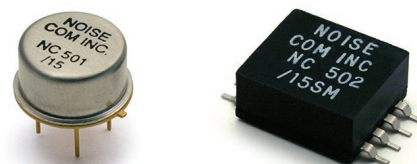




扫码关注

NC500 / 500SM Series

200 kHz to 5 GHz



Noise Modules for BITE

The NC500 (through hole) and NC500SM (surface mount) Series noise modules are an economical solution for built-in test requirements. They contain complete bias circuits and require no external components.

The surface mount package is suitable for mounting on microstrip. The modules produce extremely flat output power versus frequency characteristic that is insensitive to temperature and voltage variations.

The NC500 Series modules are housed in a TO-8 metal can, and require 0.2 to 10 mA, while the NC500SM Series modules are housed in a surface mount plastic package. Both typically require 5 mA and produce a minimum of 31 dB ENR of white Gaussian noise. The NC510 and NC510SM Series typically require 30 mA and have higher output with a minimum of 51 dB ENR.

Typical applications for these noise modules include built-in test equipment (BITE), signal strength meters for cellular, PCS, CATV, calibrators, spectrum analyzers, radar warning receivers (RWR), and dither A/D quantization error. Noise Com can optimize frequency range, voltage and output levels for specific applications. Most models are available from stock.

When ordering, add the suffix "SM" to the model number to denote the surface mount version. If the suffix is not included, the drop-in version (through hole) will be supplied. (Optional custom screening available). Add suffix R for RoHS compliant.

Applications

- Built-in test equipment (BITE)
- Signal strength meters for cellular, PCS and CATV
- Calibrators
- Spectrum analyzers
- Radar warning receivers (RWR)
- Dither A/D quantization error
- Gain-bandwidth product testing

Model For +12 V Supply	Model For +15 V Supply	Model For +28 V Supply	Frequency Range	Typical Output ENR (dB) @ R _i (Ω)		Output Flatness (dB)	I (Max) (mA)
NC501/12	NC501/15	NC501	200 kHz - 500 MHz	31	50	±0.5	10
NC502/12	NC502/15	NC502	200 kHz - 1 GHz	31	50	±1.0	10
NC503/12	NC503/15	NC503	200 kHz - 2 GHz	31	50	±1.5	10
NC504/12	NC504/15	NC504	200 kHz - 3 GHz	31	50	±1.5	10
NC505/12	NC505/15	NC505	200 kHz - 4 GHz	31	50	±2.5*	10
NC506/12	NC506/15	NC506	200 kHz - 5 GHz	31	50	±3.0*	10
NC511/12	NC511/15	N/A	200 kHz - 500 MHz	51	50	±2.0	30
NC512/12	NC512/15	N/A	200 kHz - 1 GHz	51	50	±2.0	30
NC513/12	NC513/15	N/A	200 kHz - 2 GHz	51	50	±2.0	30

2. Add SM for surface mount. Otherwise TO-8 is standard.

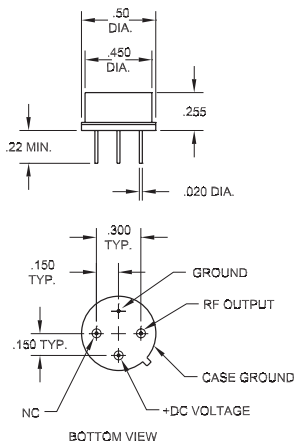
* Flatness ±4.0 for SM Series of these models.

3. Add suffix R for RoHS compliant.

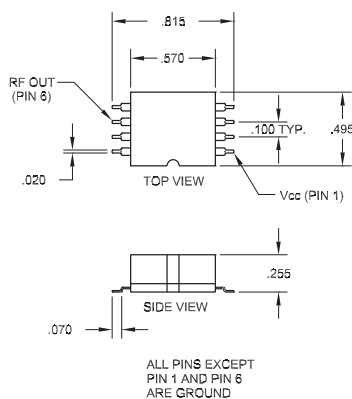
Specifications

Output	White Gaussian noise
Typical power output	31 dB ENR (-143 dBm/Hz)(NC500 Series) 51 dB ENR (-123 dBm/Hz)(NC510 Series)
Crest factor	5:1
Supply current	0.2 to 10 mA (NC500 Series) 10 to 30 mA (NC510 Series)
Temperature coefficient	0.01 dB/°C
Supply sensitivity	0.1 dB/% ΔV
Operating temperature	0° C to +70° C (surface mount) -55° C to 85° C (drop-in/through-hole)
Storage temperature	-65° to +150° C
Packaging	Drop-in or surface mount
Power	+12, +15 V or +28 V
Absolute maximum input voltage	+30 V for +15 V models +40 V for +28 V models

NC500 Series Dimensions (inches)



NC500SM Series Dimensions (inches)



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N/NC500/0416/EN
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Noisecom是WTG (Wireless Telecom Group) 集团旗下全资子公司，总部坐落于新泽西州帕西帕尼，位于纽约市大都会区。

作为全球领先的射频、微波噪声源设计和制造商，其产品广泛应用于信号阻塞、加损、计量标校、抖动噪声加载、接收机性能等测试领域。

Noisecom拥有全球销售和服务办事处网络，致力于为用户提供卓越的产品服务和支持。

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