

NC2000 Series

100 Hz to 2 GHz



Dual-in-line Amplified Noise Modules

The NC2000 Series amplified noise modules are an excellent choice when a high-level noise output is desired and the noise source must be mounted on a circuit board.

The NC2000 Series modules are housed in 24-pin dual in-line packages.

Modified specifications are also available in 14-pin dual in-line packages. Consult Noisecom for availability.

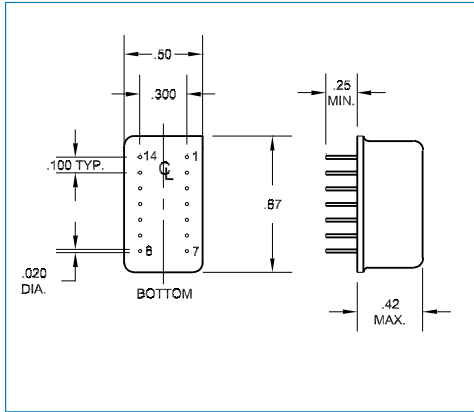
Applications

- Dither circuitry for A/D converters
- Communications jamming
- Gain-bandwidth product testing
- Built-in test equipment (BITE)

Specifications

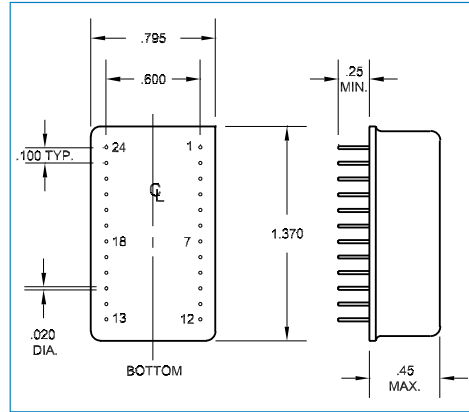
Crest factor	5:1
High-end roll off	6 dB per octave typical
Operating voltage	+15 VDC, +12 VDC optional
Storage temperature	-65° to +125°C
Operating temperature	Commercial -40° to +85° C Military -55° to +125° C
Typical temperature coefficient	0.025 dB/° C
Housing	24-pin packages; 14-pin optional

NC2000 Series 14-pin Package Dimensions (inches)



PIN 1-6 GROUND
 PIN 7 TTL (OPTION)
 PIN 8 OUTPUT
 PIN 9-13 GROUND
 PIN 14 +15

NC2000 Series 24-pin Package Dimensions (inches)



PIN 1-6 GROUND
 PIN 7 TTL (OPTION)
 PIN 8-12 GROUND
 PIN 13 OUTPUT
 PIN 14-17 GROUND
 PIN 18 +15
 PIN 19-24 GROUND

Model	Frequency Range	Output Characteristics				Load Ω	I (max) (mA)
		Output Level	Flatness (dB)	dBm/Hz	μ V/Hz		
NC2101	100 Hz - 20 kHz	0.150 Vrms	± 0.75	-63	1061.0	2200	10
NC2102	100 Hz - 100 kHz	0.150 Vrms	± 0.75	-70	474.0	2200	10
NC2105	500 Hz - 10 MHz	0.150 Vrms	± 1.0	-87	47.4	1000	10
NC2201*	1 MHz - 100 MHz	+5 dBm	± 0.75	-75	40.0	50	100
NC2401*	1 MHz - 500 MHz	0 dBm	± 1.0	-87	10.0	50	100
NC2501*	1 MHz - 1 GHz	-5 dBm	± 1.0	-95	4.0	50	100
NC2601*	1 MHz - 2 GHz	-5 dBm	± 2.0	-98	2.8	50	100

*Crest factor is 2:1 for these models

Options

NC2opt01	Military version in compliance with MIL-E-5400T Class 2 (add suffix M).
NC2opt02	TTL control "High" is on (add suffix T).
NC2opt03	Inverted TTL control "Low" is on (add suffix IT).
NC2opt04	14-pin instead of 24-pin package (NC2201 - NC2601 models only)
NC2opt05	+12 VDC operating voltage (instead of +15 VDC)
NC2opt06	Custom screening available consult factory