

NC2000 Series



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

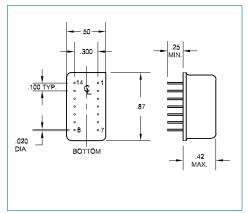
- Dither circuitry for A/D converters
- Communications jamming
- Gain-bandwidth product testing
- Built-in test equipment (BITE)

Specifications

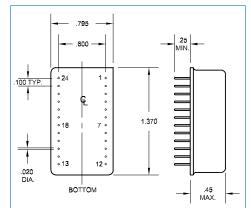
Crest factor	5:1
High-end roll off	6 dB per octave typical
Operating voltage	+15 VDC, +12 VDC optional
Storage temperature	-65° to +125°C
Operating temperature	Commercial -40° to +85° C
	Military -55° to +125° C
Typical temperature coefficient	0.025 dB/° C
Housing	24-pin packages; 14-pin optional

NC2000 Series 14-pin Package Dimensions (inches)

NC2000 Series 24-pin Package Dimensions (inches)



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



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	Output Characteristics				Load	I (max)
	Range	Output Level	Flatness (dB)	dBm/Hz	μV/Hz	Ω	(mA)
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 ³	1 MHz - 100 MHz	+5 dBm	±0.75	-75	40.0	50	100
NC2401 ³	1 MHz - 500 MHz	0 dBm	±1.0	-87	10.0	50	100
NC2501 ³	1 MHz - 1 GHz	-5 dBm	±1.0	-95	4.0	50	100
NC2601 ³	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