

# 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.

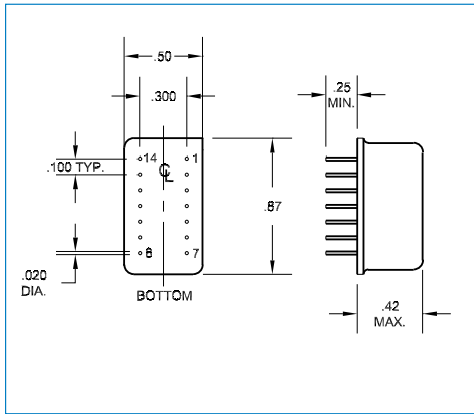
### Applications

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

### Specifications

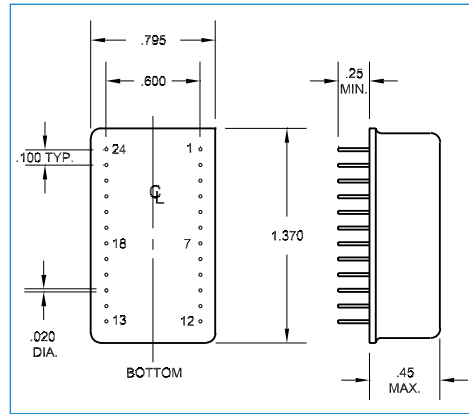
Crest factor	5:1
High-end roll off	6 dB per octave typical
Operating voltage	+15 VDC, +12 VDC optional
Storage temperature	-65° to +125°C
Operating temperature	Commercial -40° to +85° C Military -55° to +125° C
Typical temperature coefficient	0.025 dB/° C
Housing	24-pin packages; 14-pin optional

### 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 $\Omega$	I (max) (mA)
		Output Level	Flatness (dB)	dBm/Hz	$\mu$ V/Hz		
NC2101	100 Hz - 20 kHz	0.150 Vrms	$\pm 0.75$	-63	1061.0	2200	10
NC2102	100 Hz - 100 kHz	0.150 Vrms	$\pm 0.75$	-70	474.0	2200	10
NC2105	500 Hz - 10 MHz	0.150 Vrms	$\pm 1.0$	-87	47.4	1000	10
NC2201*	1 MHz - 100 MHz	+5 dBm	$\pm 0.75$	-75	40.0	50	100
NC2401*	1 MHz - 500 MHz	0 dBm	$\pm 1.0$	-87	10.0	50	100
NC2501*	1 MHz - 1 GHz	-5 dBm	$\pm 1.0$	-95	4.0	50	100
NC2601*	1 MHz - 2 GHz	-5 dBm	$\pm 2.0$	-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

**Wireless Telecom Group Inc.**  
 25 Eastmans Rd  
 Parsippany, NJ 07054

**Sales Offices**  
 Parsippany, NJ  
 United States  
 Tel: +1 973 386 9696  
 Fax: +1 973 386 9191  
 www.noisecom.com

Cheadle Hulme, Cheshire  
 United Kingdom  
 Tel: +44 (0) 161 486 3353  
 Fax: +44 (0) 161 486 3354

Roissy  
 France  
 Tel: +33 (0) 1 72 02 30 30  
 Fax: +33 (0) 1 49 38 01 06

Ismaning  
 Germany  
 Tel: +49 (0) 89 996 41 0  
 Fax: +49 (0) 89 996 41 440

Singapore  
 Tel: +65 6827 9670  
 Fax: +65 6827 9601

Shanghai  
 China  
 Tel: +86 21 5835 5718  
 Fax: +86 21 5835 5238

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