AMPLIFIED NOISE

MODULES

The NC1000 Series amplified noise modules produce white Gaussian noise as high as +13 dBm. They are designed for applications that require injection of noise at high levels, such as CATV, secure communications, and jamming systems.

Each NC1000
module
contains a
hermetically
packaged noise
diode that has
been burned-in for
168 hours. The
output of the
noise source is
connected to an
RF amplifier that
boosts power to the
desired output.

General Specifications:

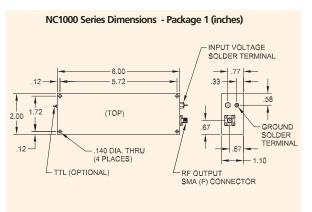
High power	Up to +13 dBm
Standard input	+28 VDC
voltage	(below 1.5 GHz)
	+15 VDC
	(above 1.5 GHz)
Operating	-35° to +100°C
temperature	
Storage temperature	-65° to +150°C
Typical temperature	0.025 dB/°C
coefficient	
Supply voltage	0.25 dB/1%? V
sensitivity	
Output connector	SMA female connector
	(BNC available
	as option)
Specifications subject t	o change without notice.

Applications:

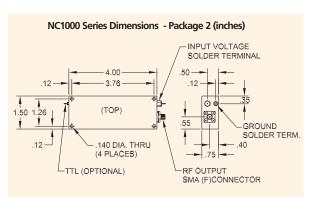
- CATV
- Secure communications
- Jamming systems
- OC-192 Testing
- EW & EC



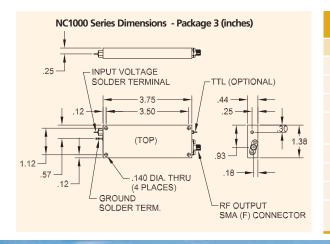




50-OHM LOAD IMPEDANCE (PACKAGE 1) +28 VDC OPERATION IS STANDARD						
MODEL	FREQUENCY RANGE	POWER (dBm)	OUTPUT dBm/Hz	CHARACTERIST FLATNESS(dB)	_	I (max) (mA)
NC1101A	10 Hz - 20 kHz	+13	-30	±0.5	7071	70
NC1103A	10 Hz - 500 kHz	+13	-44	±0.5	1414	150
NC1105A	10 Hz - 10 MHz	+13	-57	±0.75	316	160
NC1107A	100 Hz - 100 MH	z +13	-67	±1.0	100	160
NC1108A	100 Hz - 500 MH	z +10	-77	±1.5	31.6	160
NC1109A	100 Hz - 1 GHz	+10	-80	±2.0	22.4	160
NC1110A	100 Hz - 1.5 GHz	+10	-82	±2.0	18.2	160



	50-OHM LO +15 VD			CE (PACK) STANDAR		
MODEL	FREQUENCY RANGE	POWER(dBm)		CHARACTERISTIC FLATNESS(dB)		I (max) (mA)
NC1111A	1 GHz - 2 GHz	-10	-100	±2.0	2.24	250
NC1111B	1 GHz - 2 GHz	0	-90	±2.0	7.07	250
NC1112B	20 MHz - 2 GHz	0	-93	±2.5	5.02	250
NC1124A	2 GHz - 4 GHz	-7	-103	±2.0	1.58	320
NC1126A	2 GHz - 6 GHz	-12	-110	±2.0	0.71	320
NC1128A	10 MHz - 10 GH	z -17	-117	±3.0	0.32	320



OPTIONS		
Option Number	Description	
NC1opt01	+15 VDC	
NC1opt02	+24 VDC	
NC1opt03	BNC female connector (NC1101A through NC1110A only)	
NC1opt04	0 dBm output (Package 2, NC1101A through NC1110A) (Package 3, NC1111A through NC1128A)	
NC1opt05	TTL control "High" is on (add "T")	
NC1opt06	TTL control "Low" is on (add "IT")	
NC1opt07	Special frequency range (consult factory)	