



Blue Tops RF Modules > Low Noise Audio Amplifier

Features:

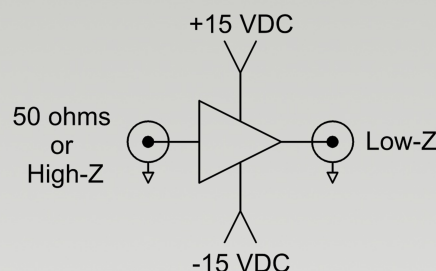
- < 1 nV/root-Hz, Input Referred
- Bandwidth 10 Hz to 1 MHz
- Fixed Gain from 30 to 60 dB
- 50 ohm or High-Z Input
- Low Output Impedance

Applications:

- Low Phase Noise Measurements
- Audio Signal Amplification

Description:

The LNAA is a low noise, low frequency amplifier with a customer-specified fixed gain between 30 and 60 dB. This amplifier module is designed to serve as a preamplifier for phase noise measurement systems where very low flicker and white noise is required and is equally useful in many applications where low noise is a critical parameter.



Electrical Specifications

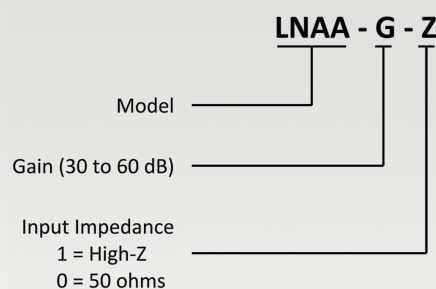
Voltage Noise (Input Referred)	≤ 1 nV/root-Hz (at 100 Hz offset)
Bandwidth	10 Hz to 1 MHz
Fixed Gain (specify)	30 to 60 dB
Gain Flatness	± 1 dB
Input Impedance (specify)	50 ohms or High-Z
Output Impedance	Low-Z
Supply Voltage	+ 15 VDC and -15 VDC
Current Draw	≤ 100 mA
Operating Temperature	0 to +50°C
Storage Temperature	-40 to +85°C

Mechanical

Dimensions	3" x 1.25" x 0.8"
DC Supply	Feed Thru Capacitors
Ground	Turret Terminal
RF Input / Output	SMA female*

* SMA female connectors are used unless otherwise specified. Other options include SMA male, right angle SMAs, BNC male or female and others. Contact factory for custom configurations.

Ordering Information:



Standard P/N	Gain	Input Impedance
LNAA-30-0	30 dB	50 Ohms
LNAA-40-0	40 dB	50 Ohms
LNAA-50-0	50 dB	50 Ohms
LNAA-60-0	60 dB	50 Ohms
LNAA-30-1	30 dB	High-Z
LNAA-40-1	40 dB	High-Z
LNAA-50-1	50 dB	High-Z
LNAA-60-1	60 dB	High-Z





Blue Tops RF Modules > Low Noise Audio Amplifier

