

LN4000

100MHz—3GHz WIDE BAND LOW-NOISE AMPLIFIER

The AOR LN4000 wideband low-noise amplifier is designed to achieve extremely low noise and high third-order intercept point along with high gain. These characteristics are maintained across a wide band, from 100MHz to 3GHz.

For the discriminating monitoring enthusiast who needs the best possible weak-signal amplification without amplifying the noise as well, this tiny preamp is the answer!

The LN4000 offers 20 dB (typical) signal amplification from 100-3000 MHz, at a low noise figure of only 4.5 dB. It is powered by any convenient 5 to 12 VDC, 30 mA (typical), center pin positive, power supply (available as an accessory).



Includes coaxial receiver/scanner interconnect cable with SMA connectors and BNC adaptors. A power supply cable with DC connector is also provided for remote mounting.



Photo shows supplied accessories: DC power supply cable (Approx. 3m), interconnect coaxial cable with SMA plug (2 are supplied, minimum 20cm length), and 2 SMA-BNC adapters.

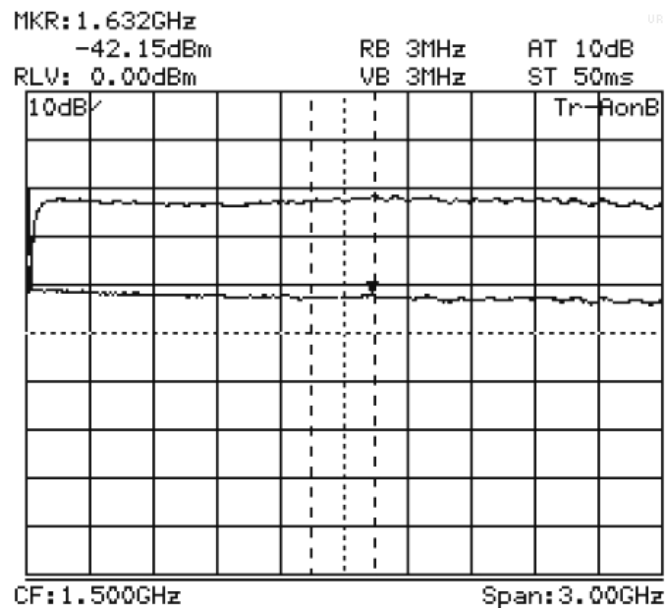
LN4000 SPECIFICATIONS

Model	LN4000
Device	Silicon Monolithic IC
Frequency Range	100MHz to 3GHz
Usable upper frequency	4GHz (reduced gain)
Amplifier Gain	20dB \pm 2dB (typical)
Noise Figurer	4.5dB (typical)
Operating Temperature Range	-40°C to +85°C
Input / Output Connector	SMA-J / 50 Ω
Operating Voltage (Vcc)	DC 5.0V to 12.0V
Power Consumption	Approx. 28mA at 8VDC.
Dimensions (Approx.)	25.5 x 21 x 13mm
Weight (Approx.)	15g

NOTE: Antenna preamplifiers increase the strength of strong signals as well as weak. If you experience strong-signal overload, a filter for the offending frequencies is recommended.

Specifications subject to change without prior notice.
E. & O.E.

LN4000 Gain Curve



Graph shows typical amplifier characteristics for amplifier On (upper line) and amplifier Off (bottom line) state.