Users Manual

LNA 5000 / Item.No.: 1041

Technical Data

Frequency range	50 - 5000 MHz
Amplification/Noise figure, type.	@ 200 MHz 22/1.9 dB @ 500 MHz 22/2.0 dB @1000 MHz 20/2.0 dB @ 3000 MHz 16/2.5 dB
Connection norm	N – socket
DC input	UHF - socket
Operating voltage	12V - 14V
Current consumption	typ70 mA
Mast diameter	max. 58 mm

High quality engineering in its most precious form: A modern GaAs HBT-amplifier chip on a low-loss ceramic micro wave substrate and high-grade Microstrip-N sockets allow a low noise figure and a high amplification over a broad range of more than 5 Ghz at the same time. The excellent large-signal behaviour of the LNA 5000 is certified by an IP3 >30 dBm. Intermodulation caused by strong sum signals of bigger antenna systems are nearly impossible. Hence the LNA 5000 can be classified as an allround amplifier for many applications, as preamplifier for scanner and receivers, or for sensitivity enhancement of measuring systems. But also as a low-power amplifier the LNA 5000 with a linear output power of up to 20 dBm can be useful. The amlifier may be fed directly or remotely via the coaxial cable, the operating voltage will be stabilized internally. Recommended remote powering coupler: **DCC-5000** (item.No. 1040)

Mount the preamplifier directly to the mast with the included clamps; the N-sockets should point downwards. Connect the preamp input („ANT“) via cable, as short as possible, to your antenna. Please choose a low-loss cable only. We recommend our cables **AIRCOM PLUS** or **ECOFLEX 10**.

Subsequently, connect the cable to your station to the socket „TRX“. If you want to feed the preamp via the coaxial cable, the mounting process is finished already.
Direct feeding of the operating voltage is possible also. It is absolutely necessary to use a shielded cable, like type RG 58/U. The inner conductor has to be connected to the Plus (+) pole, the shielding to the Minus (-) pole. This cable will be connected to the preamp by a commonly used UHF-connector.

Notes on environmental protection

Electrical and electronic devices may not be disposed of with household waste. This must be handed in separately at collecting points, or returned to the point of sale. Packaging materials must be separated and disposed of through the municipal waste by material type.

Maintenance

Do not open the unit. It does not contain any parts needing maintenance. If you need help regarding technical matters, please contact support@ssb-electronic.com. For a lowest possible noise figure of the complete system, set preamp to maximum gain.

Safety, Warranty

Not suitable for children! The packaging material and the device may contain small parts which may be swallowed. Repairs may only be performed by qualified personnel.,
Opening the device, or improper use will void any warranty claims. No guarantee will be given.
The device applies to the Low Voltage Directive 2006/95/EG, as well as to 2004/108/EG, 2002/96/EG, 1999/44/ EG.

Declaration of Conformity

CE

The CE mark is a free trade mark. It does not guarantee any product features. The product does apply all relevant regulations within the scope of 94/62/EG.

Manufacturer is: SSB-Electronic GmbH,
Am Pulverhäuschen 4, 59557 Lippstadt/Germany

How to contact:

E-Mail:	support@ssb-electronic.com
Phone:	+49 (0) 2941-93385-0
www:	ssb-electronic.com