Data Sheet

LNA 5000 / Art. No.: 1041

High quality engineering in its most precious form: a modern SiGe-amplifier chip on a low-loss ceramic micro wave substrate and high-grade Microstrip-N sockets allow a low noise figure and high amplification over a broad range of 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 is nearly impossible. Hence theLNA 5000 can be classified as an allround amplifier for many applications, as preamplifier for scanners 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** (Art.Nr. 1040)

Mount the preamplifier directly to the mast with the included clamps; the N-sockets should point downwards. Connect the preamp input („ANT“) via a 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.

Technical Data

Frequency range	50 - 5000 MHz
Amplification/Noise figure, typ.	
	@ 200 MHz 22/1.9 dB
	@ 500 MHz 22/2.0 dB
	@1000 MHz 20/2.0 dB
	@ 3000 MHz 16/2.8 dB
Connection norm	N – socket
DC input	UHF - socket
Operating voltage	12V - 14V
Current consumption	typ. 70 mA
Mast diameter	max. 58 mm

Do not open the unit. It does not contain any parts needing maintenance. If you need help regarding technical matters, please contact our team:
technik@ssb-electronic.de

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Disposal of your old appliance

This product is covered by the European Community directive 2002/96/EC. 2.
All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or by the local authorities. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and the human health.
For more detailed information about the disposal of your old appliance, please consult your city office, waste disposal service or the shop where you purchased the product.
Within Germany, the above regulations are also valid for the disposal of batteries and accumulators accordingly.

Declaration of Conformity

Herewith we declare that this product complies with all relevant regulations for the product within the guidelines 73/23/EWG, 89/336/EWG and 99/5/EG of the Council:

EN 301 489-15 Electromagnetic compatibility and Radio Spectrum Matters (ERM) Electromagnetic Compatibility (EMC) standard for radio equipment and services.
Part 15: specific conditiones for commercially available amateur radio equipment.

EN 301 783-1 Electromagnetic compability and Radio Spectrum Matters (ERM); Land Mobile Service; commercially available amateur radio equipment.
Part 1: technical characteristics and methods of measurement.

EN 301 783-2 Electromagnetic compability and amateur radio equipment.
Part 2: harmonized EN covering essential requirements under articel 3.2 of the R&TTE Directive.

EN 60950-1:2001 Information technology equipment – safety.
Part 1: General requirements.

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