

Data sheet / Manual



SLN 1300 / Item. no.: 1052



Product description

This amplifier is characterized by high gain, extremely low noise level and very good intermodulation behavior for the 23cm Ham Radio Band. The increasingly dense frequency allocation places increased demands on the selectivity and the large-signal behavior of the amplifier. The SLN series meets these requirements.

This amplifier is built with a low-noise MMIC of the latest technology on a high-quality microwave substrate in SMD technology. Band filters are used for selection. The SLN 1300 has an HF-tight tinplate housing. The SLN can be powered remotely or directly. The SLN 1300 preamplifier is ideal for EME, Troposcatter and contest operations.

Technical specifications

Frequency	1296-1300 MHz
Noise figure	0,5 dB
Gain	20 dB
Bandwidth	4 MHz
P1dB Output power	+18 dBm
Connection standard	N - female
Operating voltage	12V - 14V
Power consumption	75 mA
Case dimensions	74 x 55 x 30 mm
	21,9" x 2,2" x 1,2"
Weight	120 g

Connection instructions

The power supply for the preamplifier can be fed via the coaxial output line with the help of a remote feeder (e.g. DCC 5000pro), which is connected upstream of the receiver input. For receivers that output the LNA power supply at the antenna input, the coaxial output line of the preamplifier is connected directly to the antenna input of the receiver. This preamplifier can also be powered locally from a power supply via the +12 V

DC connection. The shortest possible low-loss coaxial cable, e.g. Ecoflex 15 or Ecoflex10, should be used for the antenna connection. The output line can be realized with a thinner coaxial cable, e.g. Aircell 7. The coaxial cables used should have non-transforming lengths. The lengths are calculated using the following formula:

$\text{Lambda} / 2 \times N \times V$

Lambda – wavelength

N - natural number 1 2 3 4 5

V – Velocity factor of the coaxial cable used

Notes on environmental protection



Electrical and electronic devices must not be disposed of with household waste. These are to be handed in at separate collection points or at the point of sale. Packaging materials are to be separated and disposed of with household waste according to type of material.

Do not open the device. The device contains no serviceable parts. If you need support with technical questions or in case of service, please contact us by e-mail:

technik@ssb-electronic.de

Ssecurity, guarantee

The product is unsuitable for children. The packaging material and the device may contain small parts that can be a choking hazard. Repairs may only be carried out by qualified personnel, but opening the device or improper use will void any warranty claim. There will be no guarantee. This device complies with the Low Voltage Directive 2014/35/EU as well as 2014/30/EU, 2012/19/EU, (EU) 2019/771.

Declaration of Conformity



It is hereby declared that the above-mentioned product meets all product-relevant regulations within the scope of the Council Directives 2014/35/EU, 2014/30/EU and 2014/53/EU.

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