



Product description

The SP 600 is a selective receive preamplifier with transmit / receive switching. It provides adjustable gain, low noise and good large-signal response. At low transmission power, the transmission / reception switching can be realized by means of a built-in VOX circuit. This amplifier is built with a GaAs MMIC of the latest technology on high quality microwave substrate in SMD technology. The band pass at the output of the amplifier ensures good band selection, so that all signals that lie outside the useful band are effectively suppressed. This amplifier has a UV-resistant plastic housing that protects against splash water and galvanized mast clamps with stainless steel screws for attachment to the antenna mast.

Connection notes

The amplifier is installed in the vicinity of the antenna system with the sockets facing downwards by means of the supplied mast clamps on the antenna mast. The ANT jack is connected to the antenna by a short low attenuation coaxial cable. The TRX socket is connected via a coaxial cable to the antenna socket of the transceiver, which outputs a LNA remote power supply. For transceivers that do not have an LNA power supply, a pre connected bias-tee can be used for the remote feed of the amplifier. In this case, the amplifier is switched over the DC crossover e.g. DCC 5000 pro permanently supplied with 13.8 V voltage and the transmit / receive switchover is carried out with the help of the HF VOX circuit of the preamplifier when the transmit signal is output by the transceiver. a pre connected bias tee can be used for the remote feed of the amplifier.

In the case of a direct supply via the UHF socket, a shielded supply line must be used to prevent the transmission of the transmission signal into the station power supply and further into the transceiver. In the case of high transmission powers in systems with a power amplifier, the transmission / reception switchover with a sequencer e.g. DCW 2004 B can be realized. In order not to deteriorate the large signal strength of the receiver, it is

It is advisable to switch off the internal preamplifier of the transceiver when using the mast preamplifier. If it cannot be switched off, the gain of the SP 600 can be reduced continuously up to 9 dB if necessary. The set screw for this is located under the plastic cover in a hole in the tinplate housing of the preamplifier.

Technical data:

Frequency range:	50-52 MHz
Noise figure, Typ.:	0,7 dB
Gain, variable	9-18 dB
switching capacity:	HF-VOX 100 W
Transferable power when using a sequencer	750 W PEP 500 W / FM
Insertion loss.:	0,03 dB
connection standard:	N-Buchse
DC input local:	UHF-Female
Remote feed:	N-Female
Operating voltage:	12V-14V
Current consumption typ.:	260 mA
Mastdurchmesser:	max. 58 mm
Umschaltzeit (TX->RX):	0,50 sek.
Umschaltzeit (RX->TX):	0,02 sek.

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.

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



We hereby declare that the above Product meets all the relevant regulations for the product in the scope of directives 73/23 / EEC, 89/336 / EEC and 99/5 / EC

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