Datasheet / Manual

SP 200 S / Item.no.: 1032-S





Product description

The SP 200 S is a selective receiving preamplifier with transmit / receive switching for the 2 m amateur band. It offers optimal amplification, low noise figure and good large-signal behavior. With low transmit powers, the transmit / receive switchover can be implemented using a built-in VOX circuit. This amplifier is built with a GaAs MMIC of the latest technology on a high quality microwave substrate in SMD technology. The band pass at the output of the amplifier ensures a good band selection so that all signals that are outside the useful band are effectively suppressed. This amplifier has a splash-proof, UV-resistant plastic housing and galvanized mast clamps with stainless steel screws for fastening to the antenna mast.

Connection notes

The amplifier is installed on the antenna mast near the antenna system with the connection sockets pointing downwards using the mast clamps supplied. The ANT socket is connected to the antenna using a short, low-loss coaxial cable. The TRX socket is connected via a coaxial cable to the antenna socket of the transceiver, which outputs an LNA remote power supply. In the case of transceivers that do not have an LNA power supply, a remote feeder that is connected upstream of the antenna line can be used to feed the amplifier remotely. In this case, the amplifier is permanently supplied with voltage via the DC switch e.g. DCC 5000pro and the transmit / receive switchover takes place with the HF VOX circuit of the amplifier when the transmit signal is output by the transceiver. In the case of a direct supply via the UHF socket, a shielded supply line must be used to prevent the transmission signal from entering the station power supply and further into the transceiver. With high transmission powers in systems with a power amplifier without sequence control, the transmit / receive switchover must be implemented with a sequencer, e.g. DCW 2004 B. In order not to impair the large-signal stability of the receiver, it is advisable to switch off the internal preamplifier of the transceiver when using the mast preamplifier.

Technical data:

Frequency range: 144 -146 MHz

Gain 18 dB 0.8 dB Noise figure, typ.: OIP3: 32 dBm 100 W Max. switching capacity with

Transferable power when using

750 W PEP

a sequencer:

500 W / CW, FM, WSJT

Insertion loss: 0.08 dB Connection standard: N-Female DC input local: UHF-Female Remote feed: N-Female Operating voltage: 12V -15V Current consumption typ.: 130-150 mA Mast diameter: max. 58 mm Switching time (TX->RX): 200 ms Switching time (RX->TX): 7 ms

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

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 quarantee 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

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.

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