

Data sheet / instructions for use



MHP 70 R / Art.No.:1067-R



Product description

The **MHP 70 R** is a very low-noise and large-signal-proof mast preamplifier with transmit / receive switchover. It is intended for use in transmitting and receiving stations of medium and high power.

Based on the LNA 70, the MHP 70-R has two HF power relays with connections in N standard. Caution: The amplifier may only be switched over without transmitting power! For this reason, the MHP 70 R may only be operated with a sequence control. Transmission operation without such a sequence control causes damage to the device!

Technical specifications:

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| Frequency range: | 430-440 MHz |
| Noise figure @ 20°C NF: | < 0,8dB |
| Gain S21, typ.: | 21 dB |
| Transferable power PEP: | 1,5 kW |
| Transferable power CW,WSJT, FM: | 750 W |
| Insertion loss: | 0,12 dB |
| Operating voltage:: | 13,8 - 15 V |
| Power consumption: (typ.): | 420 mA |
| Connection standard. | N-female |
| DC-Input: | Remote feed |
| Mast diameter: | < 58mm |

Connection instructions

The amplifiers of the MHP series are attached directly to the antenna mast, near the antenna system, using the clips supplied. The connection sockets must point downwards, otherwise rainwater can penetrate the device.

The antenna input ("ANT" socket) of the amplifier should be connected to the antenna system using a short, low-attenuation coaxial cable, e.g. Ecoflex 10 or Ecoflex 15. Please use single or multiple $\lambda / 2$ cable lengths. Take

the shortening factor into account when calculating the cable lengths. The output of the amplifier (connector "TRX") is connected to the output of the sequencer or the power amplifier, which has an internal sequencer. In this model, the operating voltage is supplied via the coaxial line (remote feed). The sequencer used must deliver at least 460 mA at 12 to 15 V voltage for safe switching.

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



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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