



The **MHP 70 R** is an extremely low-noise mast preamplifier with transmit / receive switching and an excellent large signal performance, suitable for transmission powers up into the kilowatt range.

Based on the LNA 70, the MHP 70 offers two additional coaxial power relays with N-connections. An additional decoupling of the output of the preamplifier has been improved for transmitting branch to 50 dB by a suitable circuit. The Input of the preamplifier is protected by two amplitude limiters. **Attention:** The switching of the amplifier should only be done without transmitting power! Therefore the MHP 70 R must be used with a sequence controller. Transmissionmode without a sequence controller will damage to the unit!

Technical data:

Frequency range:	430-440 MHz
Noise figure, typ.:	< 0,5 dB
Amplification, typ.	21 dB
Admissible power PEP:	1,5 kW
Admissible power CW:	750 W
Insertion loss:	0,1 dB
Voltage range:	13,8 - 15 V
Current consumption (typ.):	420 mA
Connection standard:	N female connector
DC input:	remote power
Mast diameter:	< 58 mm

Connection instructions

The amplifiers of the MHP series can be mounted with the included clamps directly on the antenna mast near the antenna system. The connection sockets must be directed downwards, otherwise rain-water can penetrate.

The antenna input (socket „ANT“) of the preamplifier should be connected with the antenna system via a short, low-noise coaxial cable like Ecoflex 10 or Ecoflex 15. Please use simple or multiple $\lambda/2$ lengths. Please take into account the velocity factor in the calculation of cable lengths and use identical cable types if

possible. The output of the amplifier (socket "TRX") is connected to the output of the sequencer or power amplifier with an internal sequencer. The supply of operating voltage is carried out at this model via a DC voltage on the feeding coaxial line (remote power). For safe Shifting at least 460 mA at 12 V to 15 V required.

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 us: 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



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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