

LNA 70 MA Item. No.: 1012-MA



Product description

The LNA 70 MA is a selective receive preamplifier, which is installed in a mast housing. While offering a super low noise figure and high gain, it also offers very high IP values. This amplifier is built with a GaAs MMIC of the latest technology on high quality microwave substrate with SMD technology and is unconditionally stable (k factor less than 1 up to 10 GHz). The input circuit of the amplifier is built with HQ components in chamber construction and optimized for the best possible noise characteristics. 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. The LNA 70 MA is used in transmission / reception systems together with the AS-3000 switch (split-mode). He is excellently suited for EME, Meteor, Scatter, Aurora, Troposcatter and competition operation.

Technical data

Frequency range:	430-440 MHz
Noise figure @ 20°C:	0,3-0,4 dB
Gain, typ.:	21 dB
Return loss:	
Input:	4,4 dB
Output:	10 dB
OIP3:	23 dBm
IIP3:	-2 dBm
Max. Input level:	10 dBm
Operating voltage:	8-14 V
Current consumption:	60 mA
Housing dimensions:	74x56 x30 mm
Weight:	260 g
Connection standard:	N-Female

Connection notes

In systems intended only for reception, the preamplifier is fed remotely via the coaxial output from the antenna input of the receiver. For receivers that do not output LNA power at the antenna input, a DC switch, e.g. DCC 5000pro, upstream of the antenna input of the receiver must be used. When using the AS-3000 switcher (split-mode), this preamplifier is powered by the sequencer via the coaxial output line of the preamplifier. Examples of the wiring of systems using the LNA 70 MA are shown in the block diagrams.

Attention! The LNA 70 MA has no send / receive switching. Excessive signal levels at the input of output of the maplifier can damage the unit.

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 serviceable parts. 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



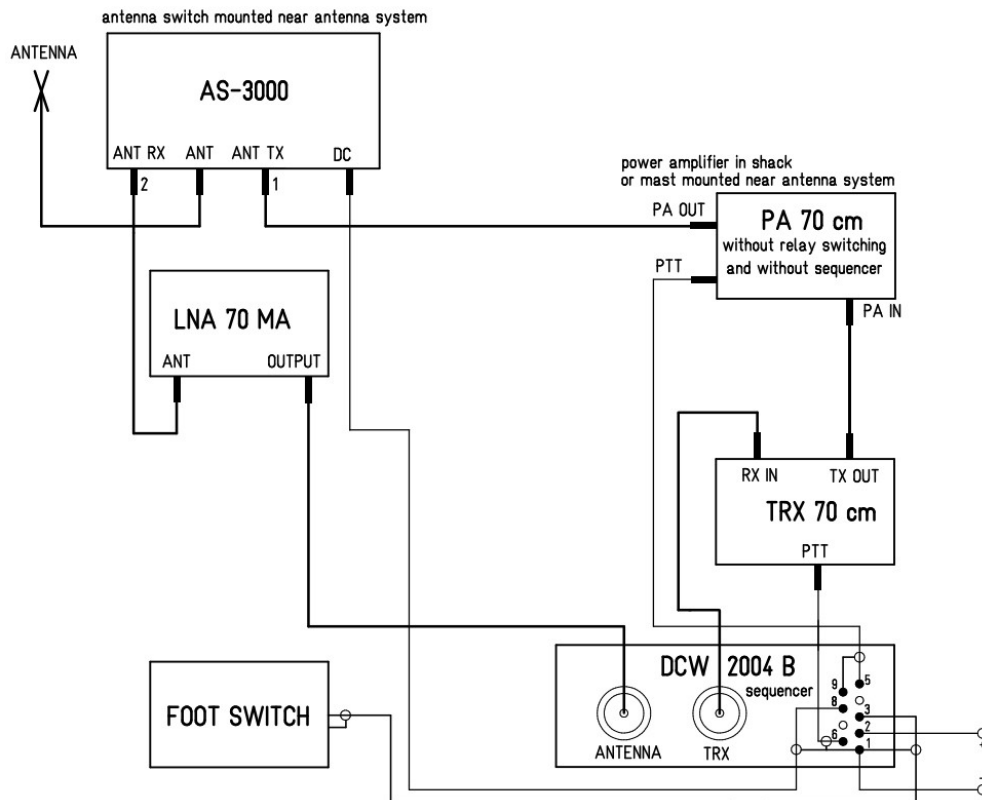
The CE mark is a free trade mark. It does not guarantee any product features. The product does apply all relevant regulations within the scope of 94/62/EG.

Manufacturer is: SSB-Electronic GmbH,
Am Pulverhäuschen 4, 59557 Lippstadt/Germany

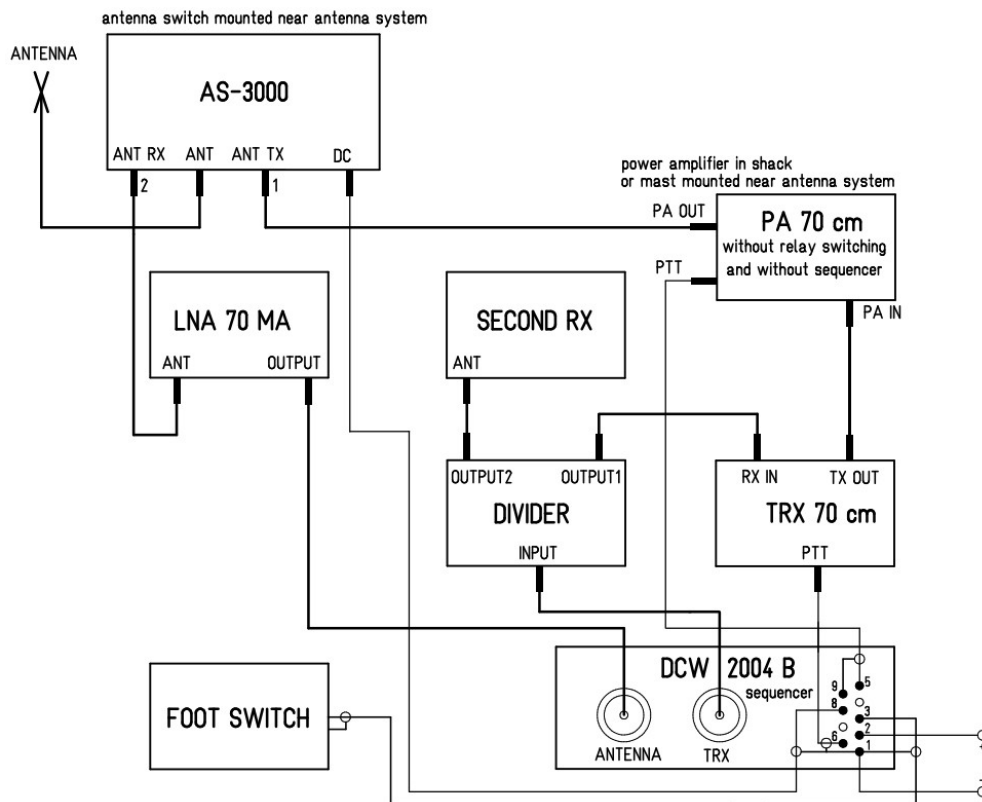
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LNA 70 MA in a transmitting / receiving system with a power amplifier without relay-switching.



LNA 70 MA in a transmitting / receiving system with secondary receiver and a power amplifier without relay-switching.