LS – Band Super Low Noise Broadband Amplifier KU LNA BB 1020 A

Product information

This high linear preamplifier was developed in 1…2 GHz directional radio link. It is suitable especially for applications where a high intermodulation distortion ratio and at the same time a high input sensitivity are used. As example for RADAR preamplifiers or for digital directional radio distance with DVBT-DVBS-COFDM and QPSK modulation. The coupling happend through 3dB hybrids, which guarantee an excellent input SWR and linearity of the preamplifier. A high stimulus capability and simultaneously a low noise figure makes the preamplifier for many applications usable. The voltage supply via coax cable (remote power supply) or direct at the case is possible.

Specifications:

Frequency range:	1000 ... 2000 MHz
Noise figure @ 18 °C:	typ. 0.8 dB, max. 1.0 dB
Gain:	min. 28 dB
Maximum RF Input Power:	10 mW
Output power P1dB:	typ. +23 dBm
Output IP3:	typ. +37 dBm @ 1500 MHz
Input return loss (S11):	min. 10 dB
Output return loss (S22):	typ. 10 dB
Supply voltage:	+12 ... 15 V DC
Current consumption:	typ. 350 mA
Input connector / impedance:	SMA-female, 50 ohms
Output connector / impedance:	SMA-female, 50 ohms
Case:	milled aluminium
Dimensions (mm):	78 x 41 x 22
Weight:	typ. 100 g

! Static sensitive product !

Applications:

CE

- Analog and digital transmission systems
- Measurement and laboratory equipment

Features:

- Low noise figure
- High IP3
- Good input return loss (S11)
- Static protection (ESD) at preamplifier input
- Overvoltage protection and reverse polarity protection
- Remote power supply via output connector
- Solder pin for direct power supply

Important Notes:

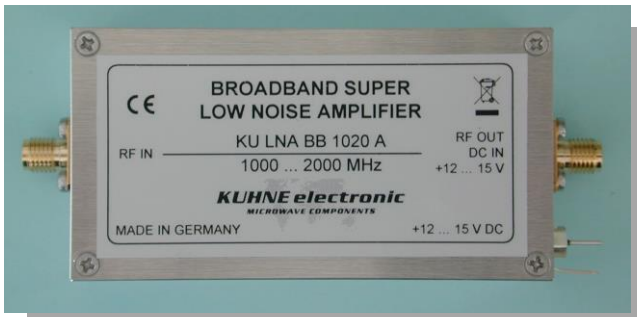
Case should be mounted on heat sink or chassis!

CE Conformity:

- EMC directive 2014/30/EU
- Low voltage directive 2014/35/EU
- RoHS directive 2011/65/EU

2023-06-12

Sig.:_____QS:_____



Additional protection against moisture is essential in case of outdoor installation.
Installation in a waterproof case is recommended!
Please note: No built-in coaxial relays!

Products are only to be sold to processing companies or radio amateurs with a licence.
For operating high frequency modules legal instructions must be followed.

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