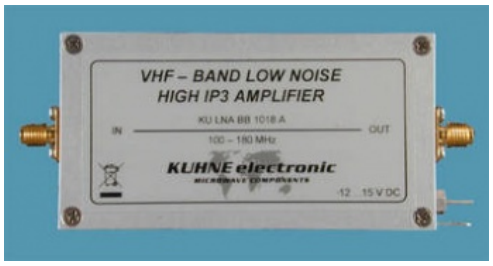
KU LNA BB 1018 A, Low Noise Broadband Amplifier

100 ... 180 MHz

analog & digital transmission systems **high IP3**



Description

This high linear preamplifier was developed for applications in VHF communication band. It is suitable especially for applications where a high intermodulation distortion ratio and at the same time a high input sensitivity are used. The coupling happened through 3dB hybrids, which guarantee an excellent input SWR and linearity of the preamplifier. The voltage supply via coax cable (remote power supply) or direct at the case is possible.

Features

- Low noise figure
- Large bandwidth
- High IP3 and high output power
- Very 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
- Milled aluminium case

Applications

- Analog and digital transmission systems
- Suitable for large signal environments
- Amplifier for low power applications
- Driver amplifier

Important notes

- Maximum input power +20 dBm (100 mW)

Technical specifications:

Frequency range	100..180 MHz
Noise figure @ 18 °C	typ. 1.0 dB, max. 1.3 dB NF
Gain	min. 20 dB
Gain flatness	max. +/- 2 dB
Maximum input power	100 mW
Output power (P1dB)	typ. 630 mW (+28 dBm)
Output power (Psat)	min. 1000 mW (+30 dBm)
Output IP3	typ. 44 dBm
Input return loss (S11)	min. 10 dB
Output return loss (S22)	typ. 15 dB
Supply voltage	+12 ... 15 V DC
Current consumption	typ. 400 mA
Operating case temp. range	-20 ... +55 °C
Input connector / impedance	SMA-female, 50 ohms
Output connector / impedance	SMA-female, 50 ohms

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Case	milled aluminium
Dimensions (mm)	78 x 41 x 22
Weight	100 g (typ.)

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