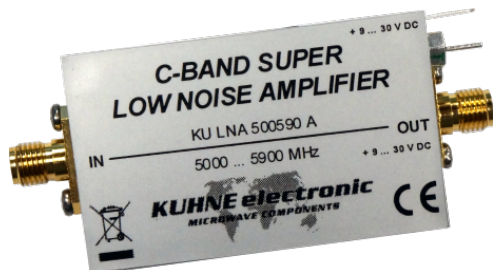


KU LNA 500590 A, Low Noise Amplifier

5000 ... 5900 MHz



Filters

Features

- Low noise figure
- High gain
- High IP3 for good large signal performance
- Very good input return loss (S11)
- Unconditionally stable – no parasitic oscillations in case of poor antenna match
- Static protection (ESD) at preamplifier input
- Solder pin for direct power supply
- Remote power supply via output connector
- Milled aluminium case
- Small mechanical dimensions

Applications

- Digital broadcast systems (DVB-T, DVB-S)
- COFDM systems using modulation types QPSK, QAM
- Analog and digital transmission systems

Important note

- Maximum input power 2 mW

Technical specifications:

Frequency range	5000..5900 MHz
Noise figure @ 18 °C	typ. 1.5 dB, max. 1.8 dB NF
Gain	typ. 27 dB, min. 26 dB
Maximum input power	2 mW
Output power (P1dB)	typ. 19 dBm
Output IP3	typ. +27 dBm
Input return loss (S11)	11
Output return loss (S22)	min. 9 dB
Supply voltage	+9 ... 30 V DC
Current consumption	typ. 60 mA
Operating case temp. range	-40 ... +65 °C
Input connector / impedance	SMA-female, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	50 x 30 x 17
Weight	50 g (typ.)