

KU LNA 1090-2 A TM, Selective Low Noise Amplifier

1070 ... 1110 MHz

ADS-B Automatic Dependent Surveillance Broadcast IFF

- High IP3 for excellent large-signal performance
- Very low noise figure
- ESD protection at LNA input
- Built-in bias tee for remote power supply via coaxial cable
- Built-in band-pass filter



Description

The highly linear low-noise amplifier KU LNA 1090-2 A TM is a very narrow-band LNA with a very low noise figure of typically 0.5 dB. It is specially designed for applications in the IFF (identification friend or foe) frequency range at 1090 MHz. The amplifier has a two-pole bandpass filter between the two amplifier stages to suppress signals outside the useful band effectively. Furthermore, this amplifier is characterized by its outstanding large-signal performance.

Features

- High IP3 for excellent large-signal performance
- Very low noise figure
- ESD protection at LNA input
- Built-in bias tee for remote power supply via coaxial cable
- Built-in band-pass filter

Applications

- Low Noise Amplifier for Avionics

Important note

- Maximum input power 1 mW

Technical specifications:

Frequency range	1070..1110 MHz
Noise figure @ 18 °C	typ. 0.5 dB, max. 0.6 dB NF
Gain	min. 30 dB
Maximum input power	1 mW
Supply voltage	+8 ... 15 V DC
Current consumption	typ. 130 mA
Operating case temp. range	-40 ... +65 °C
Input connector / impedance	N-female, 50 ohms
Output connector / impedance	N-female, 50 ohms
Case	water resistant case incl. V2A mounting clamp
Dimensions (mm)	109 x 85 x 60
Weight	330 g (typ.)