KU LNA BB 2240 A, Low Noise Broadband Preamplifier

225 ... 400 MHz

Description

The high linear preamplifier KU LNA BB2240 A is designed for the UHF communications band. It features best large signal performance and a low noise figure. Internally it uses 3dB hybrids for input and output coupling. This leads to good input return loss, output return loss and high third order intercept point (IP3). The preamplifier contains a bias-T for remote power supply via coaxial cable and a solder pin for direct power supply.

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 note

- Maximum input power +20 dBm (100 mW)

Technical specifications:

Frequency range	225..400 MHz
Noise figure @ 18 °C	typ. 1.1 dB, max. 1.5 dB
Gain	typ. 20 dB
Gain flatness	max. +/- 2.5 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)	typ. 15 dB, min. 11 dB
Output return loss (S22)	typ. 15 dB, min. 11 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
Case	milled aluminium
Dimensions (mm)	78 x 41 x 22
Weight	100 g (typ.)

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