Filters



KU LNA 200250 A-SMA, Super Low Noise Pre-Amplifier

2000 ... 2500 MHz

Analog & digital transmission systems
Satelite ground station
Communication systems

- Extremely low noise figure
- Remote power supply via output connector possible
- Low-gain mode via solder pin
- Reverse polarity protection

The super low-noise pre-amplifier KU LNA 200250 A was particularly developed by Kuhne for S-band receive applications, e.g., satellite ground station equipment. The combination of an extremely low noise figure, high P1dB and IP3, and switchable low-gain mode ensures a very high dynamic range.



Description

The KU LNA 200250 A has a bandwidth of 2 GHz to 2.5 GHz and is thus suitable for a variety of applications in the S-band microwave range, in particular for the amplification of weak satellite signals in low-noise receivers. Furthermore, the KU LNA 200250 A is characterized by a very low noise figure of typ. 0.35 dB and a gain of typically 53 dB. By connecting the second solder pin to ground, the gain can be decreased to typ. 35 dB without affecting the noise performance. The reverse polarity protection furthermore increases user-friendliness.

Features

- Extremely low noise figure
- Remote power supply via output connector
- Low-gain mode via solder pin
- Reverse polarity protection

| Technical specifications: | |
|------------------------------|----------------------------------|
| Frequency range | 20002500 MHz |
| Noise figure @ 18 °C | typ. 0.35 dB |
| | max. 0.5 dB |
| Gain | typ. 53 dB in high-gain mode |
| | typ. 35 dB in low-gain mode |
| Gain flatness | typ. +/- 3 dB in high-gain mode |
| | typ. +/- 2.5 dB in low-gain mode |
| Maximum input power | 10 mW |
| Output power (P1dB) | typ. +21 dBm |
| Output IP3 | typ. +35 dBm |
| Input return loss (S11) | typ. 12 dB |
| | min. 8 dB |
| Output return loss (S22) | typ. 15 dB |
| | min. 12 dB |
| Supply voltage | +9 15 V DC |
| Current consumption | typ. 110 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 |



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 Dimensions (mm)
 73 x 30 x 22

 Weight
 110 g (typ.)