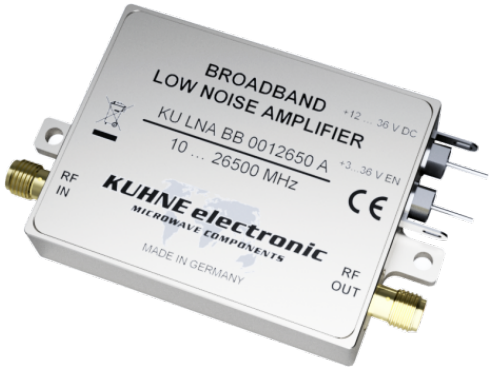
KU LNA BB 0012650 A, Low Noise Broadband Amplifier

10 ... 26500 MHz

Analog & digital transmission systems Measurement and laboratory equipment Pulse Amplification

- Low noise figure
- High bandwidth
- Good gain flatness
- Reverse polarity protection
- Small mechanical dimensions

The low-noise broadband pre-amplifier KU LNA BB 0012650 A was particularly developed by KUHNE for broadband use from 10 MHz up to 26.5 GHz. Thus, the amplifier is particularly suitable for laboratory operation and the extension of measuring equipment as well as for use in broadband high-frequency transmission systems and broadband pulse amplification.



Description

The KU LNA BB 0012650 A has a bandwidth of 10 MHz to 26.5 GHz and is thus suitable for a variety of applications in the radio-frequency (RF) and microwave range, in particular for the amplification of broadband pulsed signals. Furthermore, the KU LNA BB 0012650 A is characterized by a low noise figure of between 2 dB and 7 dB and a gain of typically 30 dB with a gain flatness of ±2 dB. The PIN diode-based reverse polarity protection furthermore increases user-friendliness.

Features

- Low noise figure
- High bandwidth
- Good gain flatness
- Reverse polarity protection
- Small mechanical dimensions

Technical specifications:

Frequency range	10..26500 MHz
Noise figure @ 18 °C	min. 2 dB, max. 7 dB
Gain	min. 25 dB, typ. 30 dB
Maximum input power	10 mW
Output power (P1dB)	min. 10 dBm
Output IP3	min. 20 dBm
Input return loss (S11)	min. 8 dB
Output return loss (S22)	min. 8 dB
Supply voltage	min. 12 V DC, max. 36 V DC
Current consumption	typ. 220 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)	56 x 44 x 12
Weight	74 g (typ.)

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