

KU LNA 10001100 A, Super Low Noise Preamplifier 10000 ... 11000 MHz



Features

- Low noise figure
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Milled aluminium case
- Small mechanical dimensions

Important notes

- The preamplifier does not contain built-in coaxial relays!
- Maximum input power 1 mW

Technical specifications:

Frequency range	10000..11000 MHz
Noise figure @ 18 °C	typ. 0.7 dB, max. 0.8 dB
Gain	min. 22 dB
Maximum input power	1 mW
Output power (P1dB)	min. +5 dBm
Output IP3	typ. +15 dBm
Input return loss (S11)	typ. 13 dB, min. 8 dB
Output return loss (S22)	min. 10 dB
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 30 mA
Operating case temp. range	-20 ... +55 °C
Input connector / impedance	Waveguide R100 / WG16 / WR90
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	73 x 40 x 20
Weight	130 g (typ.)

KU LNA 133 BH, Super Low Noise Amplifier 1200 ... 1400 MHz



Features

- Low noise figure
- High gain
- Reverse polarity protection
- Very good input return loss (S11)
- Solder pin for direct power supply
- Remote power supply via output connector

Applications

- Analog and digital transmission systems
- Measurement and laboratory equipment
- Radar receiving systems

Important notes

- Maximum input power 1 mW

Technical specifications:

Frequency range	1200..1400 MHz
Noise figure @ 18 °C	typ. 0.7 dB, max. 0.8 dB
Gain	min. 30 dB
Maximum input power	1 mW
Output IP3	typ. +29 dBm
Input return loss (S11)	min. 15 dB
Output return loss (S22)	min. 10 dB
Supply voltage	+12 V DC
Current consumption	typ. 100 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)	73 x 30 x 20
Weight	80 g (typ.)

KU LNA 142 AH, Super Low Noise Preamplifier 1350 ... 1450 MHz

Super Low Noise Amplifier for Radio Astronomy



Description

Our radio astronomy preamplifier for the 1400 MHz band provides an extremely low noise figure. It is excellent for receiving weak signals from space. The preamplifier can be added to the receiving system without additional adaptors because of the male input connector and female output connector.

Features

- Extremely low noise figure
- Good input return loss (low VSWR)
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Milled aluminium case
- Small mechanical dimensions

Important notes

- The preamplifier does not contain built-in coaxial relays!
- Maximum input power 1 mW

Technical specifications:

Frequency range	1350..1450 MHz
Noise figure @ 18 °C	0.4 dB +/- 0,05
Gain	typ. 33 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 80 mA
Operating case temp. range	-40 ... +65 °C
Input connector / impedance	N-male, 50 ohms
Output connector / impedance	N-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	73 x 30 x 22
Weight	140 g (typ.)

KU LNA 152 AH, Super Low Noise Amplifier 1520 ... 1560 MHz

Super Low Noise Amplifier for Satellite Reception



Features

- Low noise figure
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Solder pin for direct power supply (feed-through capacitor)
- Remote power supply via output connector

Applications

- Low noise amplifier for satellite reception

Important notes

- Amplifier does not contain a coaxial relay!
- Maximum input power 1 mW

Technical specifications:

Frequency range	1520..1560 MHz
Noise figure @ 18 °C	max. 0.4 dB
Gain	typ. 33 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 65 mA
Operating case temp. range	-20 ... +65°C
Input connector / impedance	SMA-female, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	73 x 30 x 20
Weight	140 g (typ.)

KU LNA 163 BH, Super low noise preamplifier 1500 ... 1700 MHz



Features

- Low noise figure
- High gain
- Reverse polarity protection
- Very good input return loss (S11)
- Solder pin for direct power supply
- Remote power supply via output connector

Applications

- Analog and digital transmission systems
- Measurement and laboratory equipment
- Radar receiving systems

Important note

- Maximum input power 1 mW

Technical specifications:

Frequency range	1500..1700 MHz
Noise figure @ 18 °C	typ. 0.7 dB, max. 0.8 dB
Gain	min. 31 dB
Maximum input power	1 mW
Output IP3	typ. 26 dBm
Input return loss (S11)	typ. 18 dB
Output return loss (S22)	typ. 10 dB
Supply voltage	+12 V DC
Current consumption	typ. 100 mA
Operating case temp. range	-40 ... +85°C
Input connector / impedance	SMA-female, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	73 x 30 x 20
Weight	80 g (typ.)

KU LNA 183 BH, Super Low Noise Amplifier

1600 ... 1900 MHz



Features

- Low noise figure
- High gain
- Reverse polarity protection
- Very good input return loss (S11)
- Solder pin for direct power supply
- Remote power supply via output connector

Applications

- Analog and digital transmission systems
- Measurement and laboratory equipment
- Radar receiving systems

Important note

- Maximum input power 1 mW

Technical specifications:

Frequency range	1600..1900 MHz
Noise figure @ 18 °C	typ. 0.6 dB, max. 0.7 dB
Gain	min. 29 dB
Maximum input power	1 mW
Output IP3	typ. +33 dBm
Input return loss (S11)	min. 10 dB
Output return loss (S22)	min. 11 dB
Supply voltage	+12 V DC
Current consumption	typ. 100 mA
Operating case temp. range	-20 ... +65°C
Input connector / impedance	SMA-female, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	73 x 30 x 20
Weight	80 g (typ.)

KU LNA 222 AH, Super Low Noise Amplifier

2200 ... 2400 MHz

Satellitenbodenstation Analoge & Digitale Übertragungssysteme



Features

- Low noise figure
- High IP3
- Reverse polarity protection
- Solder pin for direct power supply
- Small mechanical dimensions
- Remote power supply via output connector

Applications

- Analog and digital transmission systems
- Measurement and laboratory equipment

Important notes

- Amplifier does not contain a coaxial relay!
- Maximum input power 1 mW

Technical specifications:

Frequency range	2200..2400 MHz
Noise figure @ 18 °C	typ. 0.5 dB, max. 0.6 dB NF
Gain	typ. 30 dB
Maximum input power	1 mW
Output IP3	typ. +27 dBm
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 80 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)	73 x 30 x 20
Weight	90 g (typ.)

KU LNA 24002600 A, Super Low Noise Amplifier 24000 ... 26000 MHz

Analog & digital transmission systems



Features

- Reverse polarity protection
- Small mechanical dimensions
- Solder pin for direct power supply

Applications

- Analog and digital transmission systems
- Measurement and laboratory equipment

Important note

- Maximum input power 1 mW

Technical specifications:

Frequency range	24000..26000 MHz
Noise figure @ 18 °C	typ. 2.5 dB NF, max. 2.8 dB NF
Gain	typ. 23 dB, min. 22 dB
Maximum input power	1 mW
Output power (P1dB)	min. 5 mW
Input return loss (S11)	min. 10 dB
Output return loss (S22)	min. 8 dB
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 70 ... 90 mA
Ambient temperature	-20 ... +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.)

KU LNA 3436 C, Super Low Noise Amplifier

3400 ... 3600 MHz

analog & digital transmission systems DVB-T DVB-S COFDM



Description

The low noise preamplifier KU LNA 3436 C was developed for applications in the frequency range from 3.4 to 3.6 GHz. As example for analog or digital directional radio links with DVBT-DVBS-COFDM and QPSK modulation. A high stimulus capability and simultaneously a low noise figure makes the preamplifier for many applications usable.

Features

- Extremely low noise figure
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Professional milled aluminium case
- Small mechanical dimensions
- High IP3 for good large signal performance

Important notes

- Amplifier does not contain a coaxial relay!
- Maximum input power 1 mW

Technical specifications:

Frequency range	3400..3600 MHz
Noise figure @ 18 °C	typ. 0.7 dB, max. 0.8 dB
Gain	typ. 24 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 80 mA
Input connector / impedance	SMA-female, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	73 x 30 x 20
Weight	75 g (typ.)

KU LNA 4450 A, Super Low Noise Amplifier

4400 ... 5000 MHz

Preliminary data!



Features

- Low noise figure
- High gain
- Reverse polarity protection
- Solder pin for direct power supply

Applications

- Analog and digital transmission systems
- Measurement and laboratory equipment

Important note

- Maximum input power 1 mW

Technical specifications:

Frequency range	4400..5000 MHz
Noise figure @ 18 °C	typ. 0.8 dB, max. 0.9 dB NF
Gain	min. 24 dB
Maximum input power	1 mW
Output power (P1dB)	typ. 20 mW (+13 dBm)
Output IP3	typ. +23 dBm (4750 MHz)
Input return loss (S11)	min. 6 dB
Output return loss (S22)	min. 9 dB
Supply voltage	+8 ... 14 V DC
Current consumption	typ. 110 mA
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	40 g (typ.)

KU LNA 4450 B, Super Low Noise Amplifier

4400 ... 5000 MHz



Features

- Low noise figure
- High gain
- High IP3
- Reverse polarity protection
- Small mechanical dimensions
- Solder pin for direct power supply
- Remote power supply via output connector

Applications

- Analog and digital transmission systems
- Measurement and laboratory equipment

Important note

- Maximum input power 1 mW

Technical specifications:

Frequency range	4400..5000 MHz
Noise figure @ 18 °C	typ. 1,0 dB
Gain	typ. 28 dB
Maximum input power	1 mW
Output power (P1dB)	typ. 25 mW (+14 dBm)
Output IP3	typ. 24 dBm
Input return loss (S11)	typ. 6 dB
Output return loss (S22)	typ. 9 dB
Supply voltage	+6 ... 14 V DC
Current consumption	typ. 90 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)	23 x 24.5 x 9
Weight	15 g (typ.)

KU LNA BB 0112 A, Low Noise Broadband Amp.

100 ... 12000 MHz

Test equipment EMC analog & digital transmission systems



Features

- Large bandwidth
- Solder pin for direct power supply
- Reverse polarity protection
- Small mechanical dimensions

Applications

- Analog and digital transmission systems
- Measurement and laboratory equipment

Important note

- Maximum input power 1 mW

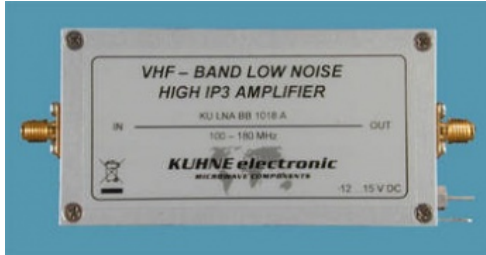
Technical specifications:

Frequency range	100...12000 MHz
Noise figure @ 18 °C	typ. 6 dB
Gain	typ. 20 dB
Maximum input power	1 mW
Supply voltage	+12 ... 15 V DC
Current consumption	typ. 100 mA
Operating case temp. range	-20 ... +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	40 g (typ.)

KU LNA BB 1018 A, Low Noise Broadband Amplifier

100 ... 180 MHz

analog & digital transmission systems high IP3



Description

This high linear preamplifier was developed for applications in VHF communication band. It is suitable especially for applications where a high intermodulation distortion ratio and at the same time a high input sensitivity are used. The coupling happened through 3dB hybrids, which guarantee an excellent input SWR and linearity of the preamplifier. The voltage supply via coax cable (remote power supply) or direct at the case is possible.

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 notes

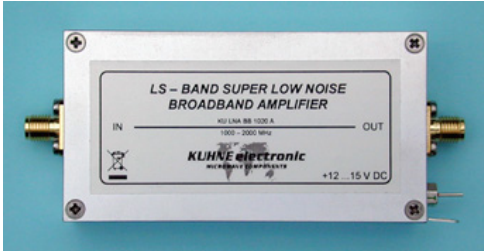
- Maximum input power +20 dBm (100 mW)

Technical specifications:

Frequency range	100..180 MHz
Noise figure @ 18 °C	typ. 1.0 dB, max. 1.3 dB NF
Gain	min. 20 dB
Gain flatness	max. +/- 2 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)	min. 10 dB
Output return loss (S22)	typ. 15 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.)

KU LNA BB 1020 A, Low Noise Broadband Amplifier 1000 ... 2000 MHz



Description

This high linear preamplifier was developed in 1...2 GHz directional radio link. It is suitable especially for applications where a high intermodulation distortion ratio and at the same time a high input sensitivity are used. As example for RADAR preamplifiers or for digital directional radio distance with DVBT-DVBS-COFDM and QPSK modulation. The coupling happens through 3dB hybrids, which guarantee an excellent input SWR and linearity of the preamplifier. A high stimulus capability and simultaneously a low noise figure makes the preamplifier for many applications usable. The voltage supply via coax cable (remote power supply) or direct at the case is possible.

Features

- Low noise figure
- High IP3
- 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

Application

- Analog and digital transmission systems
- Measurement and laboratory equipment

Important notes

- Amplifier does not contain a coaxial relay!
- Maximum input power 10 mW

Technical specifications:

Frequency range	1000..2000 MHz
Noise figure @ 18 °C	typ. 0.8 dB, max. 1.0 dB NF
Gain	min. 28 dB
Maximum input power	10 mW
Output power (P1dB)	typ. 200 mW (+23 dBm)
Output IP3	typ. +37 dBm
Input return loss (S11)	min. 10 dB
Output return loss (S22)	typ. 10 dB
Supply voltage	+12 ... 15 V DC
Current consumption	typ. 350 mA
Operating case temp. range	-20 ... +65°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.)

KU LNA BB 1522 A, Low Noise Broadband Amplifier

1500 ... 2200 MHz



Features

- Low noise figure
- High IP3
- 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

Applications

- Analog and digital transmission systems
- Measurement and laboratory equipment

Important notes

- Amplifier does not contain a coaxial relay!
- Maximum input power 5 mW

Technical specifications:

Frequency range	1500..2200 MHz
Noise figure @ 18 °C	typ. 0.8 dB, max. 1.0 dB NF
Gain	min. 27 dB
Maximum input power	5 mW
Output power (P1dB)	typ. 80 mW (+19 dBm)
Output power (Psat)	min. 100 mW (+20 dBm)
Output IP3	typ. 36 dBm
Input return loss (S11)	min. 13 dB
Output return loss (S22)	typ. 10 dB
Supply voltage	+12 ... 15 V DC
Current consumption	typ. 250 mA
Operating case temp. range	-20 ... +65°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.)

KU LNA BB 2001200 A, Low Noise Amplifier

2000 ... 12000 MHz

analog & digital transmission systems high IP3 test equipment



Features

- Large bandwidth
- Low noise figure
- High gain
- High IP3
- Reverse polarity protection
- Small mechanical dimensions
- Solder pin for direct power supply
- Remote power supply via output connector

Applications

- Analog and digital transmission systems
- Measurement and laboratory equipment

Important note

- Maximum input power 1 mW

Technical specifications:

Frequency range	2000..12000 MHz
Noise figure @ 18 °C	2,0..2,6 dB (2000...8000 MHz) 2,5..3,0 dB (8000...12000 MHz)
Gain	typ. 30 dB, min. 28 dB
Maximum input power	1 mW
Output power (P1dB)	typ. 13 dBm (2000 ... 8000 MHz) typ. 7 dBm (8000 ... 12000 MHz)
Output IP3	typ. 18 dBm (2000 ... 8000 MHz) typ. 10 dBm (8000 ... 12000 MHz)
Input return loss (S11)	typ. 10 dB
Supply voltage	+8 ... 14 V DC
Current consumption	typ. 100 mA
Operating case temp. range	-20 ... +55 °C
Case	milled aluminium
Dimensions (mm)	23 x 24.5 x 9
Weight	15 g (typ.)

KU LNA BB 202 A, Low Noise Broadband Preamplifier

100 ... 20000 MHz



Features

- Large bandwidth
- Low noise figure
- Very good input return loss (S11)
- Solder pin for direct power supply
- Reverse polarity protection
- Milled aluminium case

Applications

- Measurement and laboratory equipment
- Analog and digital transmission systems

Technical specifications:

Frequency range	100..20000 MHz
Noise figure @ 18 °C	typ. 3.5 dB, max 5.5 dB
Gain	25 ... 28 dB
Gain flatness	max. +/- 3 dB
Output IP3	min. +27 dBm (100 ... 5000 MHz)
Input return loss (S11)	typ. 10 dB
Output return loss (S22)	typ. 10 dB
Supply voltage	+12 ... 14 V DC
Current consumption	typ. 190 mA
Operating case temp. range	-20 ... +65°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.)

KU LNA BB 2227 A, Low Noise Broadband Amplifier 2200 ... 2700 MHz



Features

- Low noise figure
- High IP3
- Internal band-pass filter
- 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

Applications

- Digital broadcast systems (DVB-T, DVB-S)
- Multichannel Multipoint Distribution Service (MMDS)
- Analog and digital transmission systems
- Measurement and laboratory equipment

Important notes

- Amplifier does not contain a coaxial relay!
- Maximum input power 5 mW

Technical specifications:

Frequency range	2200..2700 MHz
Noise figure @ 18 °C	typ. 0.9 dB, max 1.2 dB
Gain	min. 25 dB
Maximum input power	5 mW
Output power (P1dB)	typ. 200 mW (+23 dBm)
Output IP3	typ. +33 dBm
Input return loss (S11)	typ. 13 dB
Output return loss (S22)	typ. 10 dB
Supply voltage	+12 ... 15 V DC
Current consumption	typ. 250 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)	78 x 41 x 22
Weight	110 g (typ.)

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.)

KU LNA BB 3000 A, Low Noise Broadband Amplifier

10 ... 3000 MHz

analog & digital transmission systems test equipment



Description

This low noise broad band amplifier is designed to cover the frequency range from 10...3000 MHz with a gain of 25...30 dB. The noise figure is max. 2.5 dB.

Features

- Large bandwidth
- Solder pin for direct power supply
- Reverse polarity protection
- Small mechanical dimensions

Applications

- Analog and digital transmission systems
- Measurement and laboratory equipment

Important notes

- Amplifier does not contain a coaxial relay!
- Maximum input power 1 mW

Technical specifications:

Frequency range	10..3000 MHz
Noise figure @ 18 °C	typ. 1.5 dB, max 2.5 dB
Gain	25 ... 30 dB
Maximum input power	1 mW
RF input protection	PIN diodes
Output IP3	min. +26 dBm, typ. +30 dBm
Supply voltage	+12 ... 15 V DC
Current consumption	typ. 150 mA
Operating case temp. range	-40 ... +85°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	45 g (typ.)

KU LNA BB 3000 C-N, Low Noise Broadband Amplifier

10 ... 3000 MHz

analog & digital transmission systems test equipment



Description

This low noise broad band amplifier is designed to cover the frequency range from 10...3000 MHz with a gain of 25...30 dB. The noise figure is max. 2.5 dB.

Features

- Large bandwidth
- Solder pin for direct power supply
- Reverse polarity protection
- Small mechanical dimensions

Applications

- Analog and digital transmission systems
- Measurement and laboratory equipment

Important notes

- Amplifier does not contain a coaxial relay!
- Maximum input power 1 mW

Technical specifications:

Frequency range	10..3000 MHz
Noise figure @ 18 °C	typ. 1.5 dB, max 2.5 dB
Gain	25 ... 30 dB
Maximum input power	1 mW
RF input protection	PIN diodes
Output IP3	min. +26 dBm, typ. +30 dBm
Supply voltage	+12 ... 15 V DC
Current consumption	typ. 150 mA
Operating case temp. range	-40 ... +85°C
Input connector / impedance	N-female, 50 ohms
Output connector / impedance	N-male, 50 ohms
Case	milled aluminium
Dimensions (mm)	50 x 30 x 22
Weight	100 g (typ.)

KU LNA BB 2533 A, Low Noise Broadband Amplifier



Description

Features

Application

Important notes

Technical specifications:

Frequency range	2500..3300 MHz
Noise figure @ 18 °C	typ. 1.2 dB, max. 1.3 dB
Gain	typ. 33 dB, min. 31 dB
Maximum input power	2 mW
Output IP3	typ. +30 dBm
Input return loss (S11)	typ. 12 dB
Output return loss (S22)	typ. 10 dB
Supply voltage	+12 ... 15 V DC
Current consumption	typ. 120 mA
Operating case temp. range	-20 ... +65°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	110 g (typ.)

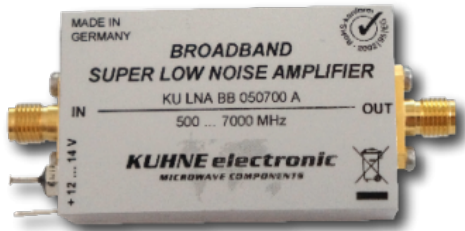
KU LNA BB 050700 A, Broadband Low Noise Amplifier

500 ... 7000 MHz

Monitoring systems test equipment

This super low noise wideband amplifier was designed to cover the 500 ... 7000 MHz. The noise figure is typ. 1.6 dB at 40 dB gain.

Concurrently the broadband amplifier comes with a high IP3 and a output power of >100 mW. With this outstanding performances, this amplifier may be used for many applications.



Features

- High IP3
- Large bandwidth
- Reverse polarity protection
- Solder pin for direct power supply
- Small mechanical dimensions
- Super Low Noise
- Remote power supply via output connector

Applications

- Measurement and laboratory equipment
- Broadband amplifier for spectrum analysis
- Low noise broadband amplifier for monitoring systems
- Broadband power amplifier for networkanalysis (sweep oscillators)

Important notes

- Amplifier does not contain a coaxial relay!

Technical specifications:

Frequency range	500..7000 MHz
Noise figure @ 18 °C	typ. 1.5 dB, max. 1.9 dB
Gain	typ. 40 dB, min. 37 dB
Gain flatness	max. +/- 2 dB
Maximum input power	-3 dBm
Output power (P1dB)	typ. 20 dBm
Output IP3	typ. +30 dBm
Input return loss (S11)	typ. 10 dB, min. 7 dB
Supply voltage	+9 ... 15 V DC
Current consumption	160mA
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.)
Feature	Remote power supply via RF output

KU LNA 640700 A, Low Noise Broadband Amplifier

6400 ... 7000 MHz



Features

- Extremely low noise figure
- Reverse polarity protection
- Unconditionally stable. No parasitic oscillations in case of poor antenna match
- Milled aluminium case

Applications

- Deep space communications

Important notes

- Amplifier does not contain a coaxial relay!
- Maximum input power 1 mW

Technical specifications:

Frequency range	6400..7000 MHz
Noise figure @ 18 °C	typ. 0.8 dB
Gain	min. 30 dB
Maximum input power	1 mW
Supply voltage	+8 ... 12 V DC
Current consumption	typ. 90 mA
Operating case temp. range	-20 ... +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.)

KU LNA 8000 B, Super Low Noise Amplifier 8000 ... 8450 MHz

Super Low Noise Amplifier for Satellite Reception



Features

- Extremely low noise figure
- Reverse polarity protection
- Unconditionally stable. No parasitic oscillations in case of poor antenna match
- Milled aluminium case

Applications

- Deep space communications

Important notes

- Amplifier does not contain a coaxial relay!
- Maximum input power 1 mW

Technical specifications:

Frequency range	8000..8450 MHz
Noise figure @ 18 °C	typ. 0.8 dB
Gain	min. 28 dB
Maximum input power	1 mW
Output power (P1dB)	typ. 31,6 mW (+15 dBm)
Output IP3	typ. 25 dBm
Input return loss (S11)	min. 10 dB
Supply voltage	+12 ... 15 V DC
Current consumption	typ. 90 mA
Operating case temp. range	-20 ... +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	45 g (typ.)

KU LNA 8000 B WG, Super Low Noise Amplifier

8000 ... 8450 MHz

Super Low Noise Amplifier for Satellite Reception



Features

- Extremely low noise figure
- Reverse polarity protection
- Unconditionally stable. No parasitic oscillations in case of poor antenna match
- Milled aluminium case

Applications

- Deep space communications

Important notes

- Amplifier does not contain a coaxial relay!
- Maximum input power 1 mW

Technical specifications:

Frequency range	8000..8450 MHz
Noise figure @ 18 °C	typ. 0.8 dB
Gain	typ. 32 dB
Maximum input power	1 mW
Input return loss (S11)	typ. 10 dB
Supply voltage	+12 ... 15 V DC
Current consumption	typ. 90 mA
Operating case temp. range	-20 ... +65°C
Input connector / impedance	Waveguide R100 / WG16 / WR90
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	73 x 40 x 20
Weight	110 g (typ.)