

MKU LNA 243 CS2, Super Low Noise Preamplifier 24000 ... 24250 MHz



Description

Our HEMT amplifiers for 24 GHz use the latest semiconductor technologies. Due to its small mechanical dimensions, the module can be used for building very compact receive or transmit systems.

Features

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

Important notes

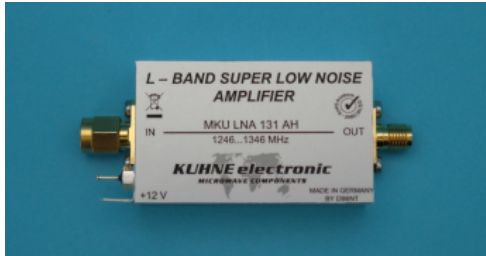
- The preamplifier does not contain built-in coaxial relays!
- Maximum input power 1 mW

Technical specifications:

Frequency range	24000..24250 MHz
Noise figure @ 18 °C	typ. 2.0 dB, max. 2.3 dB
Gain	min. 24 dB
Maximum input power	1 mW
Output power (Psat)	typ. 10 mW (+10 dBm)
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 60 mA
Operating case temp. range	-20 ... +65°C
Input connector / impedance	SMA-male, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	50 x 30 x 17
Weight	40 g (typ.)

MKU LNA 131 AH SMA, Low Noise HEMT Preamplifier 1296 MHz

Super Low Noise HEMT Preamplifier for DX and EME



Description

For many years, our super low noise microwave preamplifier has been used very successful. Many results of Ham Radio Contests proof that! Due to a extremely low noise figure the preamplifier is ideal for tropo DX, EME (earth moon earth operation) and for receiving satellites.

Features

- Extremely low noise figure
- Good input return loss (low VSWR)
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Professional milled aluminium case
- Small mechanical dimensions
- Male connector at the input for direct connection to antenna or coaxial relay

Important notes

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

Technical specifications:

Frequency range	1246..1346 MHz
Noise figure @ 18 °C	0.4 dB +/- 0,05
Gain	typ. 20 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 15 mA
Operating case temp. range	-20 ... +65°C
Input connector / impedance	SMA-male, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	50 x 30 x 22
Weight	100 g (typ.)

MKU LNA 132 AH SMA, Low Noise Amplifier
1296 MHz

Super Low Noise Preamplifier for DX and EME



Description

For many years, our super low noise microwave preamplifier has been used very successful. Many results of Ham Radio Contests proof that! Due to a extremely low noise figure the preamplifier is ideal for tropo DX, EME (earth moon earth operation) and for receiving satellites.

Features

- Extremely low noise figure
- Good input return loss (low VSWR)
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Professional milled aluminium case
- Small mechanical dimensions
- Male connector at the input for direct connection to antenna or coaxial relay
- High IP3 for good large signal performance
- Remote power supply via output connector

Important notes

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

Technical specifications:

Frequency range	1246..1346 MHz
Noise figure @ 18 °C	0.4 dB +/- 0,05
Gain	typ. 33 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	-20 ... +65°C
Input connector / impedance	SMA-male, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	73 x 30 x 20
Weight	140 g (typ.)

MKU LNA 232 AH-SMA, Super Low Noise Preamplifier 2304 ... 2322 MHz

Super Low Noise Preamplifier for DX and EME



Description

For many years, this super low noise microwave preamplifier has been used very successful. Many results of Ham Radio Contests proof that! Due to an extremely low noise figure the preamplifier is ideal for tropo DX, EME (earth moon earth operation) and for receiving satellites.

Features

- Extremely low noise figure
- High IP3 for good large signal performance
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Reverse polarity protection
- Solder pin for direct power supply
- Male connector at the input for direct connection to antenna or coaxial relay
- Small mechanical dimensions
- Remote power supply via output connector

Applications

- Amateur Radio
- EME, Tropo DX, satellite reception
- Analog and digital operation modes (SSB, CW, WSJT)

Important notes

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

Technical specifications:

Frequency range	2304..2322 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	-20 ... +65°C
Input connector / impedance	SMA-male, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	73 x 30 x 22
Weight	140 g (typ.)

MKU LNA 102 S EME, Super Low Noise Preamplifier 10368 MHz



Features

- WINNER! Noise figure contest at EME-Conference in Prague
- 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	10318..10418 MHz
Noise figure @ 18 °C	typ. 0.7 dB
Gain	typ. 22 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 30 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	130 g (typ.)

MKU LNA 131 AH, Super low noise preamplifier 1296 MHz

Super Low Noise HEMT Preamplifier for DX and EME



Description

For many years, our super low noise microwave preamplifier has been used very successful. Many results of Ham Radio Contests proof that! Due to a extremely low noise figure the preamplifier is ideal for tropo DX, EME (earth moon earth operation) and for receiving satellites.

Features

- Extremely low noise figure
- Good input return loss (low VSWR)
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Professional milled aluminium case
- Small mechanical dimensions
- Male connector at the input for direct connection to antenna or coaxial relay

Important notes

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

Technical specifications:

Frequency range	1246..1346 MHz
Noise figure @ 18 °C	0.4 dB +/- 0,05
Gain	typ. 20 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 15 mA
Operating case temp. range	-20 ... +65°C
Input connector / impedance	N-male, 50 ohms
Output connector / impedance	N-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	50 x 30 x 22
Weight	100 g (typ.)

MKU LNA 132 AH, Super Low Noise Preamplifier 1296 MHz

Super Low Noise Preamplifier for DX and EME



Description

For many years, our super low noise microwave preamplifier has been used very successful. Many results of Ham Radio Contests proof that! Due to a extremely low noise figure the preamplifier is ideal for tropo DX, EME (earth moon earth operation) and for receiving satellites.

Features

- Extremely low noise figure
- Good input return loss (low VSWR)
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Professional milled aluminium case
- Small mechanical dimensions
- Male connector at the input for direct connection to antenna or coaxial relay
- High IP3 for good large signal performance
- Remote power supply via output connector

Important notes

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

Technical specifications:

Frequency range	1246..1346 MHz
Noise figure @ 18 °C	0.4 dB +/- 0,05
Gain	typ. 33 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	-20 ... +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.)

MKU LNA 144 A, Selective Low Noise Amplifier 144 ... 146 MHz

Selective Super Low Noise Preamplifier



Description

This selective super low noise preamplifier uses the latest PHEMT transistor technology from Agilent. Due to his high technical performance - low noise figure, high gain and very high IP3 - it is the ideal preamplifier for contest operation as well as EME, Meteorscatter, Aurora and tropo DX.

Features

- Low noise figure and high gain
- LC filter (144 MHz) for good selectivity
- Milled aluminium case
- High IP3, ideal for contest operation
- Unconditionally stable. No parasitic oscillations in case of poor antenna match

Applications

- EME (Earth - Moon - Earth)
- Contest operation
- Meteorscatter
- Aurora
- Tropo DX

Important notes

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

Technical specifications:

Frequency range	144..146 MHz
Noise figure @ 18 °C	0,35 dB +/- 0.05
Gain	25 ... 28 dB
Maximum input power	1 mW
Output IP3	typ. 24 dBm
Input return loss (S11)	min. 3 dB
Output return loss (S22)	typ. 15 dB
Supply voltage	+12 ... 14 V DC
Current consumption	typ. 60 mA
Operating case temp. range	-20 ... +65°C
Input connector / impedance	N-male, 50 ohms
Output connector / impedance	N-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	50 x 30 x 22
Weight	100 g (typ.)

MKU LNA 144 A - SMA, Amplifier with SMA connector 144 ... 146 MHz

Selective Super Low Noise Preamplifier with SMA Connector



Abbildung ähnlich / similar to illustration

Description

This selective super low noise preamplifier uses the latest PHEMT transistor technology from Agilent. Due to his high technical performance - low noise figure, high gain and very high IP3 - it is the ideal preamplifier for contest operation as well as EME, Meteorscatter, Aurora and tropo DX.

Features

- Low noise figure and high gain
- LC filter (144 MHz) for good selectivity
- Milled aluminium case
- High IP3, ideal for contest operation
- Unconditionally stable. No parasitic oscillations in case of poor antenna match

Applications

- EME (Earth - Moon - Earth)
- Contest operation
- Meteorscatter
- Aurora
- Tropo DX

Important notes

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

Technical specifications:

Frequency range	144..146 MHz
Noise figure @ 18 °C	0,35 dB +/- 0.05
Gain	25 ... 28 dB
Maximum input power	1 mW
Output IP3	typ. 24 dBm
Input return loss (S11)	min. 3 dB
Output return loss (S22)	typ. 15 dB
Supply voltage	+12 ... 14 V DC
Current consumption	typ. 60 mA
Operating case temp. range	-20 ... +65°C
Input connector / impedance	SMA-male, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	50 x 30 x 24
Weight	100 g (typ.)

MKU LNA 231 AH, Super Low Noise Preamplifier 2304 ... 2322 MHz

Super Low Noise Preamplifier for DX and EME



Description

For many years, our super low noise microwave preamplifier has been used very successful. Many results of Ham Radio Contests proof that! Due to a extremely low noise figure the preamplifier is ideal for tropo DX, EME (earth moon earth operation) and for receiving satellites.

Features

- Extremely low noise figure
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Reverse polarity protection
- Solder pin for direct power supply
- Male connector at the input for direct connection to antenna or coaxial relay
- Small mechanical dimensions

Applications

- Amateur Radio
- EME, Tropo DX, satellite reception
- Analog and digital operation modes (SSB, CW, WSJT)

Important notes

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

Technical specifications:

Frequency range	2304..2322 MHz
Noise figure @ 18 °C	typ. 0.4 dB
Gain	typ. 16 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 15 mA
Input connector / impedance	N-male, 50 ohms
Output connector / impedance	N-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	50 x 30 x 22
Weight	110 g (typ.)

MKU LNA 232 AH, Super Low Noise Preamplifier
2304 ... 2322 MHz

Super Low Noise Preamplifier for DX and EME



Description

For many years, this super low noise microwave preamplifier has been used very successful. Many results of Ham Radio Contests proof that! Due to an extremely low noise figure the preamplifier is ideal for tropo DX, EME (earth moon earth operation) and for receiving satellites.

Features

- Extremely low noise figure
- High IP3 for good large signal performance
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Reverse polarity protection
- Solder pin for direct power supply
- Male connector at the input for direct connection to antenna or coaxial relay
- Small mechanical dimensions
- Remote power supply via output connector

Applications

- Extremely low noise figure
- High IP3 for good large signal performance
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Reverse polarity protection
- Solder pin for direct power supply
- Male connector at the input for direct connection to antenna or coaxial relay
- Small mechanical dimensions
- Remote power supply via output connector

Important notes

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

Technical specifications:

Frequency range	2304..2322 MHz
Noise figure @ 18 °C	typ. 0.5 dB
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	-20 ... +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.)

MKU LNA 243 RX 2, Super Low Noise Amplifier 24000 ... 24250 MHz



Description

Our amplifier for 24 GHz uses the latest semiconductor technologies. The waveguide input is directly coupled to the internal PCB for minimum losses. Due to its small mechanical dimensions, the module can be used for building very compact receive or transmit systems.

Features

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

Important notes

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

Technical specifications:

Frequency range	24000..24250 MHz
Noise figure @ 18 °C	typ. 1.5 dB, max. 1.8 dB NF
Gain	min. 26 dB
Maximum input power	1 mW
Output power (Psat)	typ. 10 mW (+10 dBm)
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 60 mA
Operating case temp. range	-20 ... +65°C
Input connector / impedance	Waveguide R220 / WR42 / WG20
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	63 x 30 x 20
Weight	75 g (typ.)

MKU LNA 341 AH, Super Low Noise Preamplifier

3400 ... 3460 MHz

Super Low Noise Preamplifier for DX and EME



Features

- Extremely low noise figure
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Male connector at the input for direct connection to antenna or coaxial relay
- Reverse polarity protection
- Professional design in milled aluminium case
- Small mechanical dimensions
- Solder pin for direct power supply

Applications

- Amateur Radio
- EME, Tropo DX, satellite reception
- Analog and digital operation modes (SSB, CW, WSJT)

Important notes

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

Technical specifications:

Frequency range	3400..3460 MHz
Noise figure @ 18 °C	typ. 0.5 dB, max. 0.6 dB NF
Gain	min. 14 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 15 mA
Operating case temp. range	-20 ... +65°C
Input connector / impedance	N-male, 50 ohms
Output connector / impedance	N-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	50 x 30 x 22
Weight	110 g (typ.)

MKU LNA 432 A, Selective Low Noise Amplifier 432.2 MHz

Selective Super Low Noise Preamplifier



Description

This selective super low noise preamplifier uses the latest PHEMT transistor technology from Agilent. Due to his high technical performance - low noise figure, high gain and very high IP3 - this is the ideal preamplifier for contest operation as well as EME, Meteorscatter, Aurora and tropo DX.

Features

- Low noise figure and high gain
- Helical filter (432 MHz) for good selectivity
- High IP3 - ideal for contest operation
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Milled aluminium case

Applications

- Contest operation
- EME (Earth - Moon - Earth)
- Meteorscatter
- Aurora
- Tropo DX

Important notes

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

Technical specifications:

Frequency range	430..440 MHz
Noise figure @ 18 °C	typ. 0.45 dB, max. 0.55 dB
Gain	typ. 20 dB
Maximum input power	1 mW
Output IP3	typ. +27 dBm
Input return loss (S11)	typ. 5 dB
Output return loss (S22)	min. 15 dB
Supply voltage	+12 ... 14 V DC
Current consumption	typ. 60 mA
Operating case temp. range	-20 ... +65°C
Input connector / impedance	N-male, 50 ohms
Output connector / impedance	N-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	50 x 30 x 22
Weight	100 g (typ.)

MKU LNA 432 A-SMA, Low Noise Preamplifier 432.2 MHz

Selective Super Low Noise Preamplifier



Description

This selective super low noise preamplifier uses the latest PHEMT transistor technology from Agilent. Due to his high technical performance - low noise figure, high gain and very high IP3 - this is the ideal preamplifier for contest operation as well as EME, Meteorscatter, Aurora and tropo DX.

Features

- Low noise figure and high gain
- Helical filter (432 MHz) for good selectivity
- High IP3 - ideal for contest operation
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Milled aluminium case

Applications

- Contest operation
- EME (Earth - Moon - Earth)
- Meteorscatter
- Aurora
- Tropo DX

Important notes

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

Technical specifications:

Frequency range	430..440 MHz
Noise figure @ 18 °C	typ. 0.45 dB, max. 0.55 dB
Gain	typ. 20 dB
Maximum input power	1 mW
Output IP3	typ. +27 dBm
Input return loss (S11)	typ. 5 dB
Output return loss (S22)	min. 15 dB
Supply voltage	+12 ... 14 V DC
Current consumption	typ. 60 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 22
Weight	100 g (typ.)

MKU LNA 571 A, Super Low Noise Preamplifier 5760 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	5710..5810 MHz
Noise figure @ 18 °C	max. 0.7 dB
Gain	min. 12 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 15 mA
Operating case temp. range	-20 ... +65°C
Input connector / impedance	SMA-male, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	50 x 30 x 17
Weight	50 g (typ.)

MKU LNA 571 B, Super Low Noise Preamplifier 5760 MHz



Features

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

Applications

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

Technical specifications:

Frequency range	5710..5810 MHz
Noise figure @ 18 °C	max. 0.7 dB
Gain	min. 12 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 15 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.)

MKU LNA 572 A, Super Low Noise Preamplifier 5760 MHz



Features

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

Important notes

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

Technical specifications:

Frequency range	5710..5810 MHz
Noise figure @ 18 °C	typ. 0.8 dB
Gain	min. 25 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 30 mA
Operating case temp. range	-20 ... +65°C
Input connector / impedance	SMA-male, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	73 x 30 x 20
Weight	75 g (typ.)

MKU LNA 572 AF, Super Low Noise Preamplifier

- Low noise figure
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Milled aluminium case
- Small mechanical dimensions
- Contains an internal band pass filter with good wideband selectivity



Important notes

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

Kopftext

5760 MHz

Technical specifications:

Frequency range	5710..5810 MHz
Noise figure @ 18 °C	typ. 0.8 dB
Gain	min. 25 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 30 mA
Operating case temp. range	-20 ... +65°C
Input connector / impedance	SMA-male, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	73 x 30 x 20
Weight	75 g (typ.)

MKU LNA 572 B, Super Low Noise Preamplifier 5760 MHz



Features

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

Important notes

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

Technical specifications:

Frequency range	5710..5810 MHz
Noise figure @ 18 °C	typ. 0.7 dB
Gain	min. 25 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 30 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	75 g (typ.)

MKU LNA 572 BF, Super Low Noise Preamplifier 5760 MHz



Features

- Low noise figure
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Milled aluminium case
- Small mechanical dimensions
- Contains an internal band pass filter with good wideband selectivity

Important notes

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

Technical specifications:

Frequency range	5710..5810 MHz
Noise figure @ 18 °C	typ. 0.7 dB
Gain	min. 25 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 30 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	75 g (typ.)

MKU LNA 231 AH-SMA, Super Low Noise Preamplifier

2304 ... 2322 MHz

Super Low Noise Preamplifier for DX and EME



Description

For many years, our super low noise microwave preamplifier has been used very successful. Many results of Ham Radio Contests proof that! Due to a extremely low noise figure the preamplifier is ideal for tropo DX, EME (earth moon earth operation) and for receiving satellites.

Features

- Extremely low noise figure
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Reverse polarity protection
- Solder pin for direct power supply
- Male connector at the input for direct connection to antenna or coaxial relay
- Small mechanical dimensions

Application

- Amateur Radio
- EME, Tropo DX, satellite reception
- Analog and digital operation modes (SSB, CW, WSJT)

Important notes

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

Technical specifications:

Frequency range	2304..2322 MHz
Noise figure @ 18 °C	typ. 0.4 dB
Gain	typ. 16 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 15 mA
Input connector / impedance	SMA-male, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	50 x 30 x 17
Weight	110 g (typ.)

MKU LNA 102 S-EME R120, Low Noise Preamplifier 10368 MHz



Features

- WINNER! Noise figure contest at EME-Conference in Prague
- Low noise figure
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Milled aluminium case
- Small mechanical dimensions

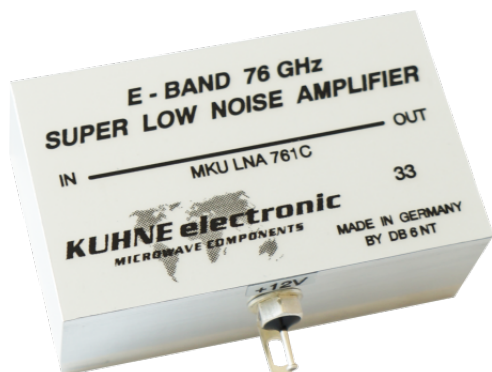
Important notes

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

Technical specifications:

Frequency range	10318..10418 MHz
Noise figure @ 18 °C	typ. 0.7 dB
Gain	min. 21 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 30 mA
Input connector / impedance	Waveguide R120 / WG17 / WR75
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	73 x 40 x 20
Weight	130 g (typ.)

MKU LNA 761 C, Low noise amplifier



Features

- low noise figure
- unconditionally stable – no parasitic oscillations in case of poor antenna match
- milled aluminium case
- small mechanical dimensions
- high gain

Important notes

- Maximum input power 1 mW

Technical specifications:

Center frequency	76032 MHz
Noise figure @ 18 °C	min. 5 dB, max. 7 dB
Gain	min. 20 dB
Maximum input power	1 mW
Output power (Psat)	typ. 16 mW, min. 11 mW
Supply voltage	+12 V DC
Current consumption	typ. 100 mA
Operating case temp. range	-20 ... +65°C
Input connector / impedance	Waveguide R740 / WR12 / WG26
Output connector / impedance	Waveguide R740 / WR12 / WG26
Case	milled aluminium / brass
Dimensions (mm)	50 x 30 x 20
Weight	100 g (typ.)

MKU LNA 101 A2, Low Noise Amplifier 10368 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	10100..10500 MHz
Noise figure @ 18 °C	typ. 0.7 dB, max. 0.8 dB
Gain	min. 12 dB, typ. 13 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 15 mA
Operating case temp. range	-20 ... +65°C
Input connector / impedance	SMA-male, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	50 x 30 x 17
Weight	50 g (typ.)

MKU LNA 101 B2, Low Noise Amplifier 10368 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	10100..10500 MHz
Noise figure @ 18 °C	typ. 0.7 dB, max. 0.8 dB
Gain	min. 12 dB, typ. 13 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 15 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.)

MKU LNA 102 A2, Super Low Noise Preamplifier 10368 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	10100..10500 MHz
Noise figure @ 18 °C	typ. 0.7 dB, max. 0.8 dB typ. 0.8 dB, max. 0.9 dB NF
Gain	min. 24 dB, typ. 26 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 30 mA
Maximum case temperature	+55 °C
Operating case temp. range	-20 ... +65°C
Input connector / impedance	SMA-male, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	50 x 30 x 17
Weight	50 g (typ.)

MKU LNA 102 B2, FET-Amplifier 10368 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	10100..10500 MHz
Noise figure @ 18 °C	typ. 0.7 dB, max. 0.8 dB
Gain	min. 24 dB, typ. 26 dB
Maximum input power	1 mW
Supply voltage	+9 ... 15 V DC
Current consumption	typ. 30 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.)

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.)

KU 7106, Active Power Splitter

70 ... 1000 MHz • +9 ... 36 V DC

Digital transmission systems DVB COFDM systems analog transmission systems

- Active circuitry
- Low insertion loss
- Reverse polarity protection
- Compact
- Robust
- All-purpose

KU7106 is 6-way active power splitter designed to operate in a frequency range from 70 – 1000 MHz and ideally suited for distributing signals received by DVB-T LNCs to up to 6 receivers Inline biasing by receivers connected. BNC-connectors input 50 Ohm, output 75 Ohm



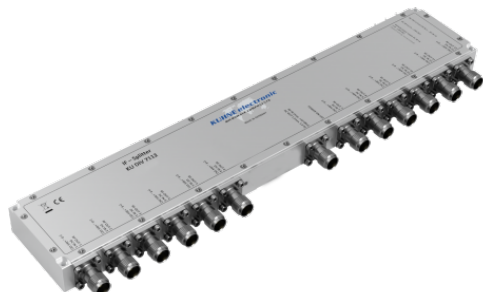
Technical specifications:

Frequency range	70..1000 MHz
Insertion loss	typ. 0 dB, max. 2 dB
Input return loss (S11)	min. 10 dB
Output return loss (S22)	min. 12 dB
Input connector / impedance	BNC-female, 50 ohms
Output connector / impedance	BNC-female, 75 ohms
Number of outputs	6
Case	milled Aluminium
Supply voltage	+9 ... 36 V DC
Current consumption	typ. 100 mA @ 12 V DC
Load current (RF IN)	max. 1 A

KU DIV 7112 A, Active Power Splitter

70 ... 1000 MHz

12 Channels



Features

- High linearity
- Power LED
- Reverse polarity protection

Applications

- Digital transmission and broadcast systems (DVB, WiMAX)
- COFDM systems using QPSK, QAM
- Analog transmission systems

Technical specifications:

Frequency range	70..1000 MHz
Insertion loss	0 dB (typ.)
Input return loss (S11)	min. 10 dB
Output return loss (S22)	min. 12 dB
Input connector / impedance	BNC-female, 50 ohms
Output connector / impedance	BNC-female, 50 ohms
Number of outputs	12 pcs.
Case	milled Aluminium
Supply voltage	+9 ... 36 V DC
Current consumption	280 mA (typ.) @ 12 V
Load current (RF IN)	max. 1 A