

MKU LNC 144, Down Converter

144 ... 146 MHz

- Downconverter for the 2m ham radio band with variable IF
- Access to Diversity and Predistortion



Features

- RX input for an additional antenna system (diversity)
- TX input for predistortion via SDR
- Control element for attenuation on TX IN
- PTT input to switch between RX IN and TX IN
- 12 V DC and PTT IN via 9 pin SUB-D

Applications

- Diversity – Upgrade your setup by applying an additional antenna system
- Predistortion – Improve your PA linearity by applying SDR based predistortion

Technical specifications:

Frequency range (RF)	144..146 MHz
Maximum input power	1 mW (0dBm)
Frequency range (IF)	28..30 MHz
Frequency range (IF)	14..16 MHz
Noise figure @ 18 °C	typ. 1.3 dB, max. 1.5 dB
Gain @ 25 °C	typ. 30 dB
Output IP3	27 dBm
ext. LO frequency	116 MHz, 130 MHz
LO connector / impedance	SMA-female, 50 ohms
Input return loss (S11)	typ. 10 dB
Supply voltage	+12 ... 14 V DC
Current consumption	typ. 190 mA (RX), typ. 60 mA (TX)
Input connector / impedance	SMA-female, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
DC input connector	SUB-D plug, 9-pole
Case	aluminium case, anodized
Dimensions (mm)	104 x 69 x 24

MKU LNC 10 QO-100

- LO frequency can be switched between 10056 MHz (433 MHz IF for SSB operation) and 9240 MHz (1255 MHz IF for DATV operation) via supply voltage (12V / 18V)
- Low noise converter with coaxial connectors
- Waterproof aluminium case
- Mounting with mast clamps directly to the mast
- Low frequency drift due to TCXO
- Can be used with duoband-feed from DJ7GP (BaMaTech)



Technical specifications:

Frequency range (RF)	10350..10500 MHz
Frequency range (IF)	433..434 MHz
Frequency range (IF)	1250..1260 MHz
Frequency range (IF)	432 ... 434 MHz
Frequency range (IF)	434 ... 436 MHz
Noise figure @ 18 °C	typ. 1.7 dB
Gain @ 25 °C	typ. 55 dB
LO frequency	10056 MHz, 9240 MHz, 9936 MHz, 10016 MHz
LO accuracy @ 18 °C	+/- 1.5 ppm
LO frequency stability (-20 ... +55 °C)	+/- 0.5 ppm
Reference input connector	IF-connector
External reference input	10 MHz / 2 ... 10 mW
Supply voltage	+9 ... +36 V DC
Maximum case temperature	+65 °C
Input connector / impedance	SMA-female, 50 ohms
Output connector / impedance	N-female, 50 ohms
Case	milled Aluminium, water resistant
Dimensions (mm)	82 x 64 x 22
Weight	230 g
Remote power supply via IF	yes

USB/TTL-Cable for LNC C PRO



KU LNC 8085 C PRO2, Low Noise Converter

Converter for Deep Space Communication with 10 MHz reference input

Finally available:

The X-Band Super Low Noise Converter KU LNC 8085 C PRO2 with 10 MHz reference input.

For an improved Deep Space Communications application!



Description

The LNC 8085 C PRO2 converts the HF range of 8 ... 8.5 GHz into the IF range of 200 ... 1300 MHz.

Four LO frequencies 7200/7400/7600/7800 MHz are permanently stored. In addition, you can control your individual IF range with a LO frequency programmable in 10 MHz steps. The possibility of connecting a 10 MHz reference source also makes it possible for the first time to ensure frequency stability for long-term applications.

Two gain levels can be set: In addition to the low gain stage of typ. 37 dB, a high gain stage of typ. 50 dB is integrated especially for Deep Space users.

The robust and weatherproof design stands for the high-quality workmanship of Kuhne electronic.

Features

- Low noise figure
- Wide bandwidth
- Low phase noise
- High frequency stability of the oscillator due to 10 MHz reference input
- High linearity
- Antenna connection protected against static charging
- Easy mast mounting due to light and compact design
- Three-colour LED indicates unit status and gain mode setting
- Gain mode setting
- Overvoltage protection and reverse polarity protection - Remote power supply via output connector

Application

- Deep Space Communications

Important notes

The total gain of pre-amplifier + attenuator + converter should not exceed 60 dB.

Technical specifications:

Frequency range (RF)	8000..8500 MHz
Maximum input power	1 mW (0dBm)
Frequency range (IF)	200..1300 MHz
Noise figure @ 18 °C	typ. 0.8 dB, max. 1.0 dB
Gain @ 25 °C	typ. 50 dB (high gain), typ. 37 dB (low gain)
Output IP3	20 dBm
LO frequency	7200 MHz, 7400 MHz, 7600 MHz, 7800 MHz

LO accuracy @ 18 °C	1 kHz
LO frequency stability	0.5 ppm
Phase noise @ 1 kHz	typ. -90 dBc/Hz
Phase noise @ 10 kHz	-94 dBc/Hz
Phase noise @ 100 kHz	typ. -105 dBc/Hz
External reference input	10 MHz / 2 ... 10 mW
Supply voltage	+9 ... +36 V DC
Current consumption	typ. 250 mA @ 12V DC
Maximum case temperature	+55 °C
Input connector / impedance	SMA-female, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium, IP43
Dimensions (mm)	82 x 64 x 22
Weight	230 g
Remote power supply via IF	yes