ALARIS KUHNE
INSPIRING THE NEXT RF SOLUTION

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Version 1.0

KU LNC 2027 B PRO

Manual

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A DIVISION OF ALARIS THE RF TECHNOLOGY GROUP

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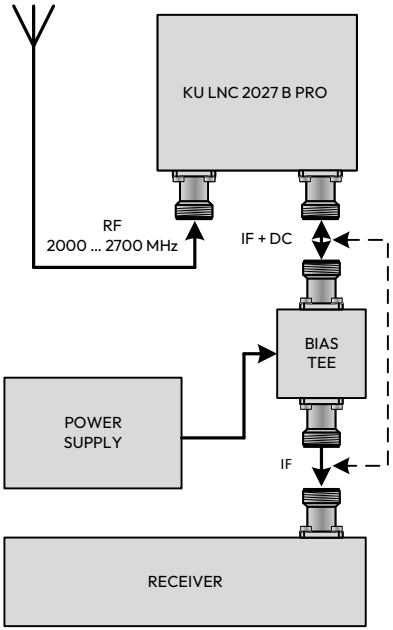
Specifications (Ta = 25 °C):

Type	**KU LNC 2027 B PRO**
Frequency range (RF)	2000 ... 2700 MHz
Noise figure @ 18 °C	typ. 1.0 dB, max. 1.3 dB
Gain	typ. 30 dB
Output IP3	typ. +18 dBm
LO / IF frequency	
LO frequency	1833 MHz
Output IF frequency	167 ... 867 MHz
LO accuracy @ 18 °C	+/- 2 ppm
LO frequency stability (0 ... 40 °C)	+/- 3 ppm
Phase noise @ 2040 MHz	
@ 1 kHz	typ. -93 dBc/Hz
@ 10 kHz	typ. -98 dBc/Hz
@ 100 kHz	typ. -104 dBc/Hz
Operating parameters	
Supply voltage	+9 ... 18 V DC
Current consumption	typ. 300 mA @ 12V
Power consumption	typ. 3.5 W
Mechanics	
Input connector / impedance	N-female, 50 ohms
Output connector / impedance	N-female, 50 ohms
Case	milled aluminium, IP43
Dimensions (mm)	82 x 64 x 22
Weight	typ. 230 g
Absolute ratings	
Maximum RF input power	1 mW (0 dBm)
Operating case temperature range	-20 ... +55 °C

Application diagram



Features

- Low noise figure
- Large bandwidth
- Low phase noise oscillator
- High frequency stability of the oscillator
- High linearity
- Antenna port protected against static discharge
- Small and light-weight to allow easy pole mounting
- Overvoltage protection and reverse polarity protection
- Remote power supply via output connector

Applications

- Multichannel Multipoint Distribution Services (MMDS)
- Digital broadcast systems (DVB-T, DVB-S)
- Analog and digital transmission systems

CE Konformität / CE Conformity

EMC directive 2014/30/EU
Low voltage directive 2014/35/EU
RoHS directive 2011/65/EU

CE

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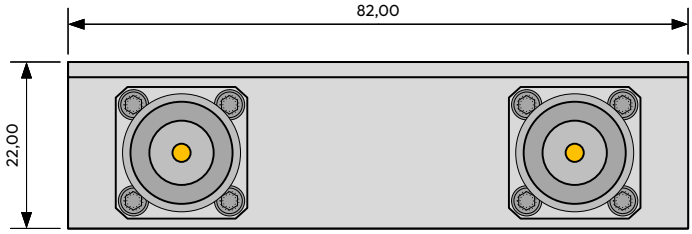
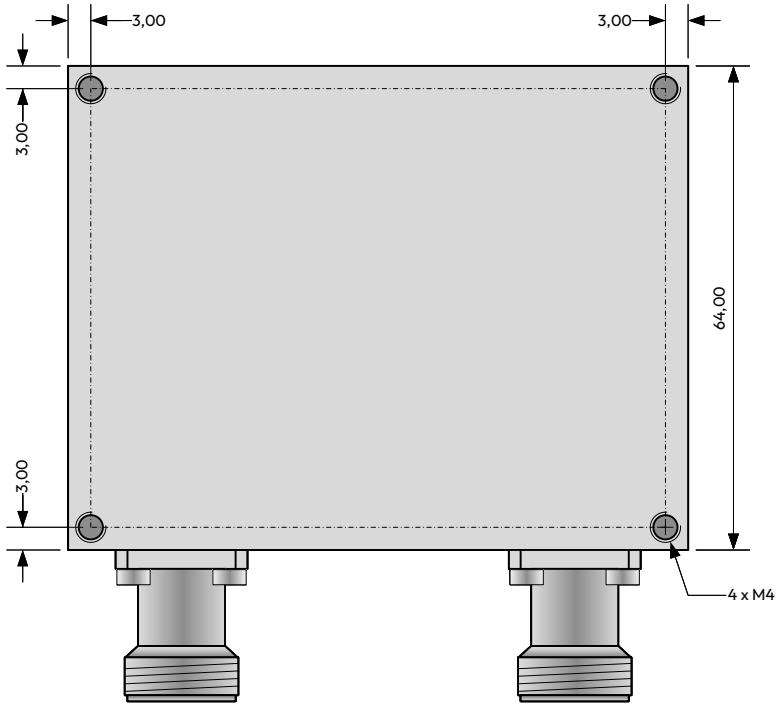
Dimensions / Mounting holes





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Mounting instructions

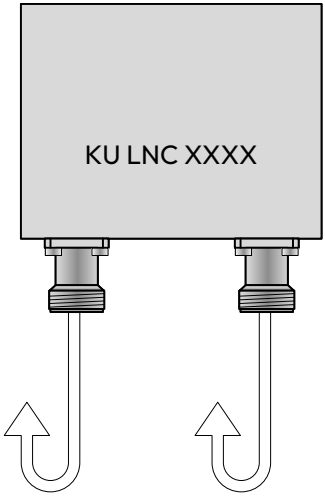
All LNCs of Kuhne electronic GmbH are marked with protection class **IP43** according to **DIN EN 60529**.

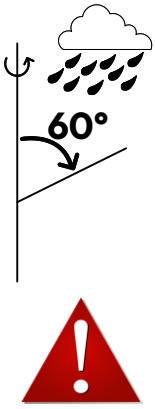
This provides information on the resistance of the unit against unwanted penetration of foreign bodies or moisture into the interior of the unit according to the following provision:

- Protected against granular solid foreign bodies (diameter ≥ 1 mm).

- Protection against falling spray up to 60° from vertical

The LNC modules have been designed with maximum protection against moisture. Nevertheless, water may enter the unit due to the design of the RF connectors, which is why some special features should be taken into account during installation.





Mounting with the RF connectors vertically downwards

If possible, do not use cable connections with angled elbow connectors, but lead plugs out with a straight cable and a loop pointing downwards.

In the event of improper installation or handling that does not comply with our recommendations, Kuhne electronic reserves the right to exclude the warranty claim.