

KU LNC 2027 B PRO, Down Converter

2000 ... 2700 MHz

This converter was developed for MMDS applications. The S-band is converted to the UHF range 167-867 MHz. By the use of the latest semiconductors, optimized band pass filters and a SAW oscillator, a high dynamic range and low phase noise of only -98 dBc/Hz @ 10 kHz are achieved. Due to low frequency drift of typ. +/- 3 ppm within 0...+40 °C the converter may be used for all digital modulation types. Typical applications are DVB-S, DVB-T, WCS, COFDM and QPSK.



Features

- Low noise figure
- Large bandwidth
- Low phase noise oscillator
- High frequency stability of the oscillator
- High linearity
- 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

Technical specifications:

Frequency range (RF)	2000..2700 MHz
Maximum input power	1 mW (0dBm)
Frequency range (IF)	167..867 MHz
Noise figure @ 18 °C	typ. 1.0 dB, max. 1.3 dB
Gain @ 25 °C	typ. 30 dB
Output IP3	18 dBm
LO frequency	1833 MHz
LO accuracy @ 18 °C	+/- 2 ppm
LO frequency stability	+/- 3 ppm
Phase noise @ 1 kHz	typ. -93 dBc/Hz
Phase noise @ 10 kHz	typ. -98 dBc/Hz
Phase noise @ 100 kHz	typ. -104 dBc/Hz
Supply voltage	+9 ... +18 V DC
Current consumption	typ. 300 mA
Maximum case temperature	+55 °C
Input connector / impedance	N-female, 50 ohms
Output connector / impedance	N-female, 50 ohms
Case	milled Aluminium, water resistant milled aluminium, IP43
Weight	230 g
Remote power supply via IF	yes