Low Noise Block Down Converter

KU LNC 4450 C PRO, Down Converter

Description

Working range of the KU LNC 4450 C PRO is the frequency range 4400 to 5000 MHz. The standard IF range is 260 to 860 MHz. Due to four configurable oscillator frequencies the down converter can be used with different receivers. An additional user defineable oscillator frequency solves special requirements on the IF range. For more flexibility the gain of the down converter is setable in two steps. The KU LNC 4450 C PRO comes in a rugged milled aluminium. The down converter is water resistant and ready for outdoor use. For tower mount application a suitable mounting clamp is available.

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
- Tri-colour LED indicates unit status and gain mode setting
- Overvoltage protection and reverse polarity protection
- Remote power supply via output connector
- switchable gain
- switchable local oscillator frequencies
- normal or reverse output spectrum selectable

Applications

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

Technical specifications:

Frequency range (RF)	4400..5000 MHz
Maximum input power	1 mW (0dBm)
Frequency range (IF)	260..860 MHz
Noise figure @ 18 °C	typ. 1.9 dB, max. 2.2 dB
Gain @ 25 °C	typ. 28 dB
Output IP3	23 dBm
LO frequency	4100 MHz, 4140 MHz, 4250 MHz, 5260 MHz
LO accuracy @ 18 °C	+/- 2 ppm
LO frequency stability	+/- 3 ppm
Phase noise @ 1 kHz	typ. -90 dBc/Hz
Phase noise @ 10 kHz	typ. - 101 dBc/Hz
Phase noise @ 100 kHz	typ. -100 dBc/Hz
Supply voltage	+9 ... +36 V DC
Current consumption	typ. 250 mA @ 12V DC
Maximum case temperature	+55 °C
Input connector / impedance	N-female, 50 ohms

Scheibenacker 3 | 95180 Berg | Germany
Tel.: +49 (0) 9293 - 800 640
Fax: +49 (0) 9293 - 800 6420

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Output connector / impedance	N-female, 50 ohms
Case	milled aluminium, IP43
Dimensions (mm)	82 x 64 x 22
Weight	230 g
Remote power supply via IF	yes

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