

KU UP 2123 A, Up Converter

2100 ... 2300 MHz

The converter KU UP 2123 A is designed for radio link systems in the range from 2100 MHz to 2300 MHz. It features a high frequency stability and high linearity. High spurious rejection is achieved by internal band pass filters. There is no need for additional external filters! Typical applications are radio link systems or digital video transmissions using DVB-T and DVB-S. Together with the power amplifier KU PA 210230-20 B an output power of more than 20 watts CW can be achieved.



Features

- Low phase noise oscillator
- High frequency stability of the oscillator
- High linearity
- Reverse polarity protection

Applications

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

Technical specifications:

Frequency range (IF)	540 ... 740 MHz
Frequency range (RF)	2100 ... 2300 MHz
LO frequency	1560 MHz
LO accuracy @ 18 °C	+/- 2 ppm
LO frequency stability	+/- 3 ppm
Phase noise @ 1kHz	typ. -98 dBc/Hz
Phase noise @ 10 kHz	typ. -107 dBc/Hz
Phase noise @ 100 kHz	typ. -116 dBc/Hz
Gain	typ. 17 dB, min 15 dB
Maximum input power	max. 5 mW (+7 dBm)
Output power (P1dB)	typ. 50 mW (+17 dBm)
Supply voltage	+12 ... +14 V DC
Current consumption	typ. 240 mA
Input connector / impedance	SMA-female, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	126 x 64 x 22
Weight	310 g