# Up-Converter

## KU UP 3436 A, Up Konverter

**3400 ... 3600 MHz**

**The up converter KU UP 3436 A converts the UHF band from 400 to 600 MHz up to the frequency range from 3400 to 3600 MHz. Internal filters provide high spurious rejection and image rejection. Due to low phase noise and high frequency stability of the local oscillator at 3000 MHz, the up converter is suitable for analog and digital communication systems.**
**Typical applications are Multichannel Multipoint Distribution Systems (MMDS) using QPSK modulation and DVB?T or DVB?S systems. The output power of 20 mW can be increased to several watts by the use of an additional power amplifier.**
**See also section > Power Amplifiers > 3.4 GHz.**


## Technical specifications:

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|---|---|
| Frequency range (IF) | 400 ... 600 MHz |
| Frequency range (RF) | 3400 ... 3600 MHz |
| LO frequency | 3000 MHz |
| LO accuracy @ 18 °C | +/- 20 kHz |
| LO frequency stability | +/- 2.5 ppm |
| Phase noise @ 100 kHz | typ. -112 dBc/Hz |
| Image rejection | typ. 50 dB |
| Gain | 23 dB |
| Gain flatness | +/- 2 dB |
| Input power | typ. 0.1 mW (-10 dBm) |
| Maximum input power | max. 3 mW |
| Output power (P1dB) | min. 20 mW (+13 dBm) |
| Output power (Psat) | min. 17 dBm (50 mW) |
| Supply voltage | +9 ... +14 V DC |
| Current consumption | typ. 230 mA |
| Input connector / impedance | SMA-female, 50 ohms |
| Output connector / impedance | SMA-female, 50 ohms |
| Case | milled aluminium |
| Dimensions (mm) | 82 x 64 x 22 |
| Weight | 200 g |


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