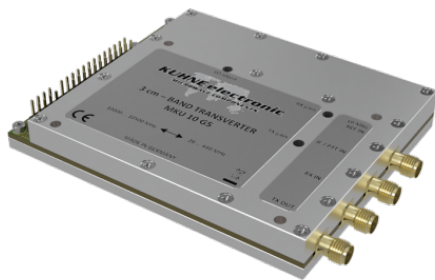


### MKU 10 G5, 3 cm Transverter

NEW - NEW - NEW

- Covering full 3 cm amateur radio band from 10000 MHz to 10500 MHz
- Flexible IF choice from 28 MHz to 440 MHz
- Very high spurious and harmonic rejection even at 28 MHz IF
- Low power IF mode
- Easy configuration of the transverter with our Kuhne Suite (works with Firmware V1.1)



#### Description

Find a detailed description under downloads.

#### Features

- Covering full 3 cm amateur radio band from 10000 MHz to 10500 MHz
- Flexible IF choice from 28 MHz to 440 MHz
- Very high spurious and harmonic rejection even at 28 MHz IF
- Low power IF mode
- Input for an external 10 MHz reference source
- Local-Oscillator with high frequency stability VCTCXO
- IF range for RX and TX independent configurable
- Big attenuator at the IF input for input power up to 5 watts
- Fuses are self-resettable (polyfuses)
- Low noise converter in the receive path
- Transmit gain and receive gain separately adjustable
- Control output for additional amplifier stages or a coaxial relay
- Adjustable sequencer delay
- PTT can be switched by a voltage on the IF connector or by connecting the PTT pin to ground
- Detector output (DC voltage) for monitoring the output power

#### Anwendungen

Applikation MKU 10 G5 - MKU PA 3CM-2W A  
Applikation MKU 10 G5 - MKU PA 3CM-4W A  
Applikation MKU 10 G5 - MKU PA 3CM-8W A  
Applikation MKU 10 G5 - MKU PA 3CM-30W A  
Applikation MKU 10 G5 - MKU PA 3CM-60W B

#### Technical specifications:

|                                        |                                      |
|----------------------------------------|--------------------------------------|
| RF range                               | 10000 ... 10500 MHz                  |
| IF range                               | 28 ... 440 MHz                       |
| IF input power                         | 0.5 ... 5 W, adjustable              |
| LO accuracy @ 18 °C                    | typ. +/- 0.5 ppm (without ext. ref.) |
| LO frequency stability (-5 ... +55 °C) | typ. +/- 0.5 ppm (without ext. ref.) |
| Phase noise @ 1 kHz                    | typ. -94 dBc/Hz                      |
| Phase noise @ 10 kHz                   | typ. -103 dBc/Hz                     |
| Phase noise @ 100 kHz                  | typ. -105 dBc/Hz                     |
| Phase noise @ 1 MHz                    | typ. -123 dBc/Hz                     |
| Output power                           | min. 200 mW                          |
| Spurious rejection                     | typ. 50 dB                           |
| Harmonic rejection                     | typ. 48 dB                           |

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| RX gain                   | typ. 25 dB                                         |
| Noise figure @ 18 °C      | typ. 1.3 dB                                        |
| External reference input  | 10 MHz / 2 ... 10 mW (sine or square wave)         |
| Reference input connector | SMA-female, 50 ohms                                |
| PTT control               | contact closure to ground or +12 V on the IF-cable |
| Supply voltage            | +13.8 V DC (+12 ... 14 V DC)                       |
| Current consumption       | typ. 580 mA                                        |
| Case                      | milled aluminium                                   |
| Dimensions (mm)           | 100 x 80 x 14                                      |
| IF connectors / impedance | SMA-female, 50 Ohms                                |
| RF connectors / impedance | SMA-female, 50 ohms (separate RX/TX connectors)    |
| Weight                    | 370 g (typ.)                                       |