

MKU 23 G4, 13 cm Transverter

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Multiband 13cm Transverter

2,3 GHz Transverter for EME

Uplink for the geostationary satellite Es'HailSat-2



Description

Find a detailed description under downloads.

Features

- Input for an external 10 MHz reference source
- Internal stabilized oscillator (can be used instead of 10 MHz reference frequency)
- Four switchable frequency bands in the 13 cm band
- RX and TX frequency range independent configurable
- Big attenuator at the IF input for input power up to 5 watts
- Fuses are self-resettable (polyfuses)
- Super 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

Applications

- EME
- Uplink for the geostationary satellite Es'Hail-2
- RX-TX switching of DB6NT transverters

Accessories

Included accessories:

Female header	1 piece	2x 13 mm
	1 piece	2x 4 mm

As a 10 MHz frequency source we recommend the 10 MHz GPS-Frequency Standard by ID Elektronik, DK2DB
 - 10 MHz GPS-Frequency Standard (ID Elektronik, DK2DB)

Technical specifications:

RF range	2320 ... 2322 MHz
-	2304 ... 2306 MHz
-	2300 ... 2302 MHz
-	2400 ... 2402 MHz
IF range	144 ... 146 MHz
-	146 ... 148 MHz
IF input power	0.5 ... 5 W, adjustable
LO accuracy @ 18 °C	typ. +/- 2 ppm, max. +/- 3 ppm (without ext. ref.)

LO frequency stability (0 ... +40 °C)	typ. +/- 2 ppm, max. +/- 3 ppm (without ext. Ref.)
Output power	typ. 1 W
RX gain	typ. 20 dB
Noise figure @ 18 °C	typ. 1.5 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. 1 A (TX)
Case	milled aluminium
Dimensions (mm)	100 x 60 x 13
IF connectors / impedance	SMA-female, 50 Ohms
RF connectors / impedance	SMA-female, 50 ohms
Weight	140 g (typ.)