

## MKU LNA 432 A-SMA, Low Noise Preamplifier 432.2 MHz

### Selective Super Low Noise Preamplifier



#### Description

This selective super low noise preamplifier uses the latest PHEMT transistor technology from Agilent. Due to his high technical performance - low noise figure, high gain and very high IP3 - this is the ideal preamplifier for contest operation as well as EME, Meteorscatter, Aurora and tropo DX.

#### Features

- Low noise figure and high gain
- Helical filter (432 MHz) for good selectivity
- High IP3 - ideal for contest operation
- Unconditionally stable - no parasitic oscillations in case of poor antenna match
- Milled aluminium case

#### Applications

- Contest operation
- EME (Earth - Moon - Earth)
- Meteorscatter
- Aurora
- Tropo DX

#### Important notes

- Amplifier does not contain a coaxial relay!
- Maximum input power 1 mW

#### Technical specifications:

|                              |                            |
|------------------------------|----------------------------|
| Frequency range              | 430..440 MHz               |
| Noise figure @ 18 °C         | typ. 0.45 dB, max. 0.55 dB |
| Gain                         | typ. 20 dB                 |
| Maximum input power          | 1 mW                       |
| Output IP3                   | typ. +27 dBm               |
| Input return loss (S11)      | typ. 5 dB                  |
| Output return loss (S22)     | min. 15 dB                 |
| Supply voltage               | +12 ... 14 V DC            |
| Current consumption          | typ. 60 mA                 |
| Operating case temp. range   | -20 ... +65°C              |
| Input connector / impedance  | SMA-female, 50 ohms        |
| Output connector / impedance | SMA-female, 50 ohms        |
| Case                         | milled aluminium           |
| Dimensions (mm)              | 50 x 30 x 22               |
| Weight                       | 100 g (typ.)               |