

### MKU PA 2M-120W HY, VHF MOSFET-Power Amplifier

144 ... 146 MHz • 120 W

VHF MOSFET Power Amplifier for the Amateur Radio Band 2 m



#### Features

- Good linearity
- Built-in low pass filter for good harmonic rejection
- Reverse polarity protection
- Monitor output for forward power detection

#### Applications

- Analog and digital transmission systems
- Power amplifier for radio amateur applications (SSB, CW)

#### Important notes

Please notice the following:

- Recommended output power for radio amateur applications: Modulation type: CW/FM up to 120 W, SSB up to 40 W
- The technical specifications refer to room temperature.
- The power amplifier doesn't contain any coaxial relays.
- The recommended combination of heat sink and fan(s) is only specified for an ambient temperature of 25 °C.
- Further information about dimensioning of heat sinks is available on our FAQ site.

#### Industrial use

Our power amplifiers of the MKU-series are exclusively intended for amateur radio applications and will only be sold to radio amateurs with a licence. These products are specified for amateur radio requirements and are not designed for industrial applications. Please notice our list of industrial products or ask for a special version.

#### Technical specifications:

|                              |                        |
|------------------------------|------------------------|
| Frequency range              | 144...146 MHz          |
| Input power                  | typ. 100 mW            |
| Saturation power             | typ. 120 W (CW)        |
| Gain (small signal)          | typ. 40 dB, min. 35 dB |
| Harmonic rejection           | typ. 60 dB             |
| Supply voltage               | +12 ... 14 V DC        |
| Quiescent current            | typ. 8 A               |
| Current consumption          | max. 21 A              |
| Operating case temp. range   | -20 ... +55 °C         |
| VSWR of load                 | max. 1.8 : 1           |
| Input connector / impedance  | SMA-female / 50 ohms   |
| Output connector / impedance | N-female / 50 Ohms     |
| Case                         | milled aluminium       |
| Dimensions (mm)              | 124 x 80 x 22          |
| Weight                       | 400 g (typ.)           |