

MKU PA 3CM-60W B WG, GaAs-FET Power Amplifier

10300 ... 10400 MHz • 60 W

Linear Power Amplifier for 10 GHz



Features

- GaAs FET technology
- High linearity (class A operation)
- Detector output (DC voltage) for monitoring forward output power
- Reverse polarity protection
- ON / OFF control with DC voltage
- Small mechanical dimensions
- Over temperature protection

Applications

- Analog and digital transmission systems

Important notes

Please notice the following:

- 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	10300..10400 MHz
Input power	typ. 23 dBm
Maximum input power	25 dBm
Saturation power	typ. 60 W, min. 55 W
Gain (small signal)	typ. 27 dB
Gain flatness (small signal)	+/-0.5 dB (typ.)
Harmonic rejection	typ. 40 dB @ 47 dBm
Over temperature protection	yes
Input return loss (S11)	typ. 10 dB
ON voltage	+5 ... 14 V DC
Supply voltage	+12 ... 14 V DC
Quiescent current	typ. 11 A
Current consumption	typ. 26 A @ 60 W
Forward detection	yes (diode detector)
Operating case temp. range	-20 ... +55 °C
VSWR of load	max. 1.8 : 1

Input connector / impedance	SMA-female / 50 ohms
Output connector / impedance	waveguide R100 / WG16 / WG90
Case	milled aluminium
Dimensions (mm)	158 x 64 x 22
Weight	400 g (typ.)