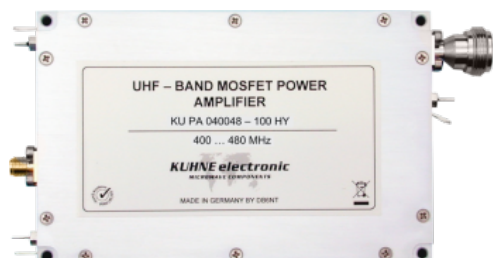


KU PA 040048-100 HY, UHF power amplifier



Features

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

Applications

- Analog transmission systems

Important notes

Please notice the following:

- All technical data specified at a supply voltage of +14 V DC at 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.

Technical specifications:

Frequency range	400..480 MHz
Input power for P3dB	min. +20 dBm
Maximum input power	+23 dBm
Output power P1dB	min. 44.7 dBm (CW) min. 30 W (CW)
Output power P3dB	typ. 50.4 dBm, min. 49.5 dBm (CW) typ. 110 W, min. 90 W (CW)
Gain (small signal)	min. 34 dB
Gain flatness (small signal)	typ. +/- 1 dB
Harmonic rejection	min. 60 dB @ 50 dBm
IM3 (1)	typ. 27 dBc @ 49 dBm PEP
Efficiency	typ. 40 % @ 50 dBm (CW)
Input return loss (S11)	typ. 20 dB, min. 15 dB
ON voltage	+12 V DC
Supply voltage	+12 ... 14 V DC
Quiescent current @ Vcc (max)	typ. 8 A
Current consumption	max. 28 A
Forward detection	yes (diode detector)
VSWR of load	max. 1.8 : 1
Operating case temp. range	-20 ... +55 °C
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.)
(1)	Measured 2-tone, frequency spacing: 1 MHz