

KU PA 040050-7 HY, MOSFET Power Amplifier
400 ... 500 MHz • 7 W



Features

- Built-in low pass filter for good harmonic rejection
- High efficiency
- Reverse polarity protection
- Monitor output for forward power detection (DC voltage)

Applications

- Analog transmission systems
- Radio amateur applications SSB, CW

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.

Technical specifications:

Frequency range	400..500 MHz
Input power for P3dB	typ. 18 dBm
Maximum input power	+21 dBm
Output power P3dB	min. 38.4 dBm (CW) min. 7 W (CW)
Gain (small signal)	min. 23 dB
Gain flatness (small signal)	max. 5 dB
Harmonic rejection	min. 60 dB @ 38.4 dBm
IM3 (1)	min. 30 dBc @ 34.7 dBm PEP
Efficiency	typ. 40 %, min. 30 % @ 38.4 dBm (CW)
Input return loss (S11)	min. 10 dB
ON voltage	+10 ... 13 V DC
Supply voltage	+12 ... 14 V DC
Quiescent current	typ. 1 A
Current consumption @ P3dB	typ. 1.4 A, max. 2 A
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	SMA-female / 50 ohms
Case	milled aluminium
Dimensions (mm)	130 x 60 x 20
Weight	240 g (typ.)
(1)	Measured 2-tone, frequency spacing: 1 MHz