

KU PA 330360-140 A, MOSFET Power Amplifier

3300 ... 3600 MHz • 140 W



Features

- LDMOS technology
- Reverse polarity protection
- Monitor output for forward power detection (DC voltage)
- ON / OFF control (ON at +12 V)
- Built-in over temperature protection

Applications

- Analog transmission systems
- Laboratory equipment

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	3300..3600 MHz
Input power for P1dB	typ. 42 dBm
Maximum input power	43.4 dBm
Output power P1dB	min. 51.4 dBm min. 140 W
Gain (small signal)	typ. 11 dB
Gain flatness (small signal)	typ. +/- 1 dB
Harmonic rejection	typ. 30 dB, min. 25 dB @ 51.7 dBm
Over temperature protection	yes
IM3 (1)	typ. 30 dBc @ 50 dBm PEP
Efficiency	min. 35 % @ 51.7 dBm (CW)
Input return loss (S11)	min. 12 dB
ON voltage	+12 V DC
Supply voltage	+28 V DC
Quiescent current	typ. 2 A
Current consumption @ P1dB	typ. 15 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	N-female / 50 Ohms
Case	milled aluminium
Dimensions (mm)	125x80x20 mm
Weight	440 g (typ.)

(1)

Measured 2-tone, frequency spacing: 1 MHz