

11.04.2023

KU PA 125160 – 45 A



Manual

Specification

Specifications (Ta = 25 °C):

Type	KU PA 125160 – 45 A
Frequency range	1250 ... 1600 MHz
Input power For P1dB Maximum	typ. 34.5 dBm, min. 33 dBm +37.8 dBm
Output power P1dB P1dB COFDM 1) COFDM 1)	typ. 46.5 dBm, min. 46 dBm (CW) typ. 45 W, min. 40 W (CW) typ. 40 dBm typ. 10 W
Gain Small signal Flatness (small signal)	typ. 13 dB, min. 11 dB typ. +/-2 dB
Harmonics Harmonic rejection @ 46.5 dBm	typ. 40 dBc
Intermodulation distortions IM3 @ 40 dBm PEP 2) IM3 @ 44 dBm PEP 2)	typ. 45 dBc typ. 45 dBc
Efficiency @ 44 dBm (CW) Efficiency @ 47 dBm (CW) Input return loss (S11)	typ. 35 % typ. 48 % typ. 8 dB
Supply voltage	+28 V DC
Quiescent current	typ. 0.38 A
Current consumption	max. 5 A
Monitor output Forward detection	yes (Diode-Detector)
Operating case temperature	-20 ... +55 °C
Mechanics Input connector / impedance Output connector / impedance Case Dimensions (mm) Weight	SMA-female, 50 ohms SMA-female, 50 ohms milled aluminium 80 x 60 x 20 typ. 140 g

Features:

- LDMOS technology
- Reverse polarity protection
- Monitor output for forward power detection (DC voltage)
- Overtemperature shutdown at 65°C case temperature

Applications:

- COFDM – systems using modulation types QPSK, QAM
- Analog transmission system
- Measurement, Laboratory equipment

Amplifier should be mounted on heat sink!

- 1) Single carrier; 64 QAM; 8MSPS; EVM=2%
- 2) Two tone test; Δf=1MHz

CE Konformität / CE Conformity

EMC directive 2014/30/EU
Low voltage directive 2014/35/EU
RoHS directive 2011/65/EU



Sig.: _____

QS.: _____

Dimensions / Mounting holes

