

16.05.2023

MKU PA 3CM – 30W B



Manual

V 1.0

Specification

Specifications (Ta = 25 °C):

Type MKU PA 3CM – 30W B

Frequency range 10000 ... 10500 MHz

Input power

For Saturation typ. 3 dBm
Maximum 7 dBm

Output power

Saturation min. 44.7 dBm (CW)
Saturation min. 30 W

Gain

Small signal typ. 48 dB
Flatness (small signal) typ. +/-2 dB

Harmonics

Harmonic rejection @ 44 dBm typ. 40 dB

Protection

Over temperature protection Yes

Supply voltage +12 ... 14 V DC
ON voltage +5 ... 15 V DC

Current consumption max. 15 A

Monitor output

Forward detection yes (Diode-Detector)

Limits

VSWR of load max. 1.8:1
Operating case temperature range -20 ... +55 °C

Mechanics

Input connector / impedance SMA-female, 50 ohms
Output connector / impedance SMA-female, 50 ohms
Case milled aluminium
Dimensions (mm) 158 x 64 x 22
Weight typ. 350 g

Features:

- GaAs FET technology
- High linearity (CLASS A operation)
- Reverse polarity protection
- ON / OFF control with DC voltage
- 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

Amplifier should be mounted on heat sink!

- 1) Single carrier; 64 QAM; 8Mpsps; EVM=2%
- 2) Two tone test; $\Delta f=1\text{MHz}$

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

