



ALARIS
KUHNE

INSPIRING THE NEXT RF SOLUTION

+49 (0) 9293 - 800 640
sales@kuhne.alaris.tech
www.kuhne.alaris.tech
Kuhne electronic GmbH
Scheibenacker 3, 95180 Berg,
Germany

V1.1

KU PA 170220-30 B



Manual

Directors: Ian Duke/Gustav Wenhold
Reg no: HRB 3350 Hof, VAT-ID-No: DE 813343044, WEEEReg.-Nr. DE34186665

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Specification

Specifications (Ta = 25 °C):

Type	KU PA 170220-30 B
Frequency range	1700 ... 2200 MHz
Input power For P3dB Maximum	typ. 17 dBm, min. 14dBm +23 dBm
Output power P1dB P1dB P3dB P3dB COFDM 1) COFDM 1)	min. 44.7 dBm (CW) min. 30 W (CW) min. 46 dBm (CW) min. 40 W (CW) typ. 39 dBm typ. 8 W
Gain Small signal Flatness (small signal)	typ. 30 dB, min. 26 dB typ. +/-3 dB
Harmonics Harmonic rejection @ 44.7 dBm	typ. 20 dB
Intermodulation distortions IM3 @ 41.7 dBm PEP 2) IM3 @ 44.7 dBm PEP 2)	typ. 35 dBc typ. 40 dBc
Efficiency @ 46 dBm (CW) Input return loss (S11)	typ. 40 %, min. 35% typ. 10 dB
Operating Parameters Supply voltage Quiescent current Current consumption Operating case temp. range	+28 V DC typ. 0.35 A max. 4 A -20 ... +55 C
Monitor output Forward detection	yes (Diode-Detector)
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:

- LD MOS technology
- Reverse polarity protection
- Monitor output for forward power detection (DC voltage)

Applications:

- WIMAX radio systems
- 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





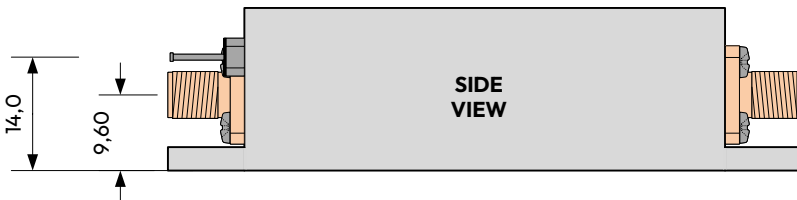
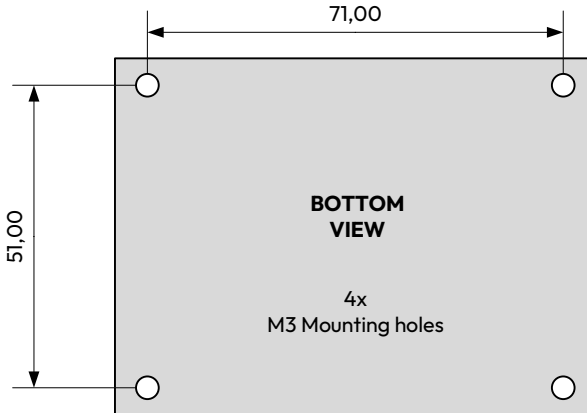
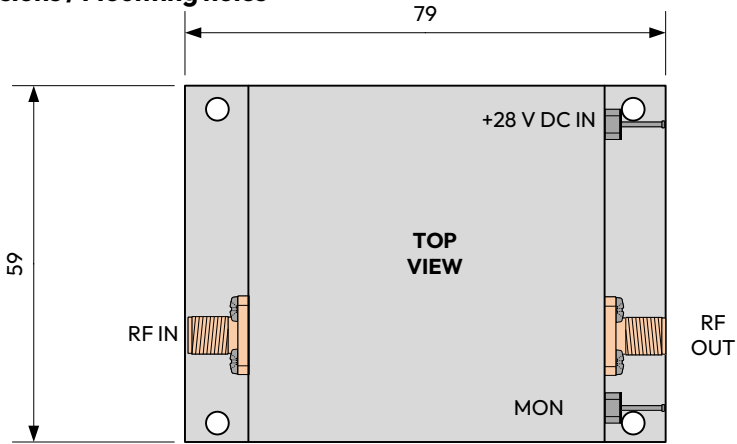
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Dimensions / Mounting holes

(mm)



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