

24.08.2023

# KU PA 440500 – 25B



## Manual

Specification

Specifications (Ta = 25 °C):

<b>Type</b>	<b>KU PA 440500 – 25B</b>
Frequency range	4400 ... 5500 MHz
<b>Input power</b>	
For P1dB	typ. +2 dBm
Maximum	+6 dBm
<b>Output power</b>	
P1dB	min. 44 dBm (CW)
P1dB	min. 25 W (CW)
COFDM 1)	typ. 40 dBm
COFDM 1)	typ. 10 W
Automatic level control (ALC)	yes (adjustable ALC)
<b>Gain</b>	
Small signal	typ. 46 dB, min. 42 dB
Flatness (small signal)	typ. +/-2 dB
<b>Harmonics</b>	
Harmonic rejection @ 44 dBm	min. 48 dB
<b>Intermodulations</b>	
IM3 (2)	typ. 40 dBc @ 40 dBm PEP typ. 36 dBc @ 43 dBm PEP
<b>Protection</b>	
Output protection	Isolator (max. 5 W reflected power)
Over temperature protection	
Efficiency @ 44 dBm (CW)	typ. 18 %
ON voltage	+5 ... 14 V DC
Supply voltage	+12 ... 14 V DC
Quiescent current	typ. 9.0 A
Current consumption	max. 12 A
<b>Monitor output</b>	
Forward detection	yes (Diode-Detector)
Reverse detection	yes (Diode Detector)
<b>Mechanics</b>	
Input connector / impedance	SMA-female, 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	158 x 100 x 20
Weight	typ. 550 g

Features:

- GaAs technology
- High linearity
- Isolator for protection against high VSWR
- Adjustable ALC (automatic level control)
- Reverse polarity protection
- Monitor outputs for forward and reverse power detection (DC voltage)
- Logic ON / OFF control (ON at +5 ... 14 V DC)

Applications:

- Digital transmission and broadcast systems (DVB, WiMAX)
- COFDM systems using QPSK, QAM
- Analog transmission systems

Amplifier should be mounted on heat sink!

- 1) Single carrier; 64 QAM; 8Msps; EVM=2%
- 2) 2-tone, frequency spacing: 1 MHz

CE Konformität / CE Conformity

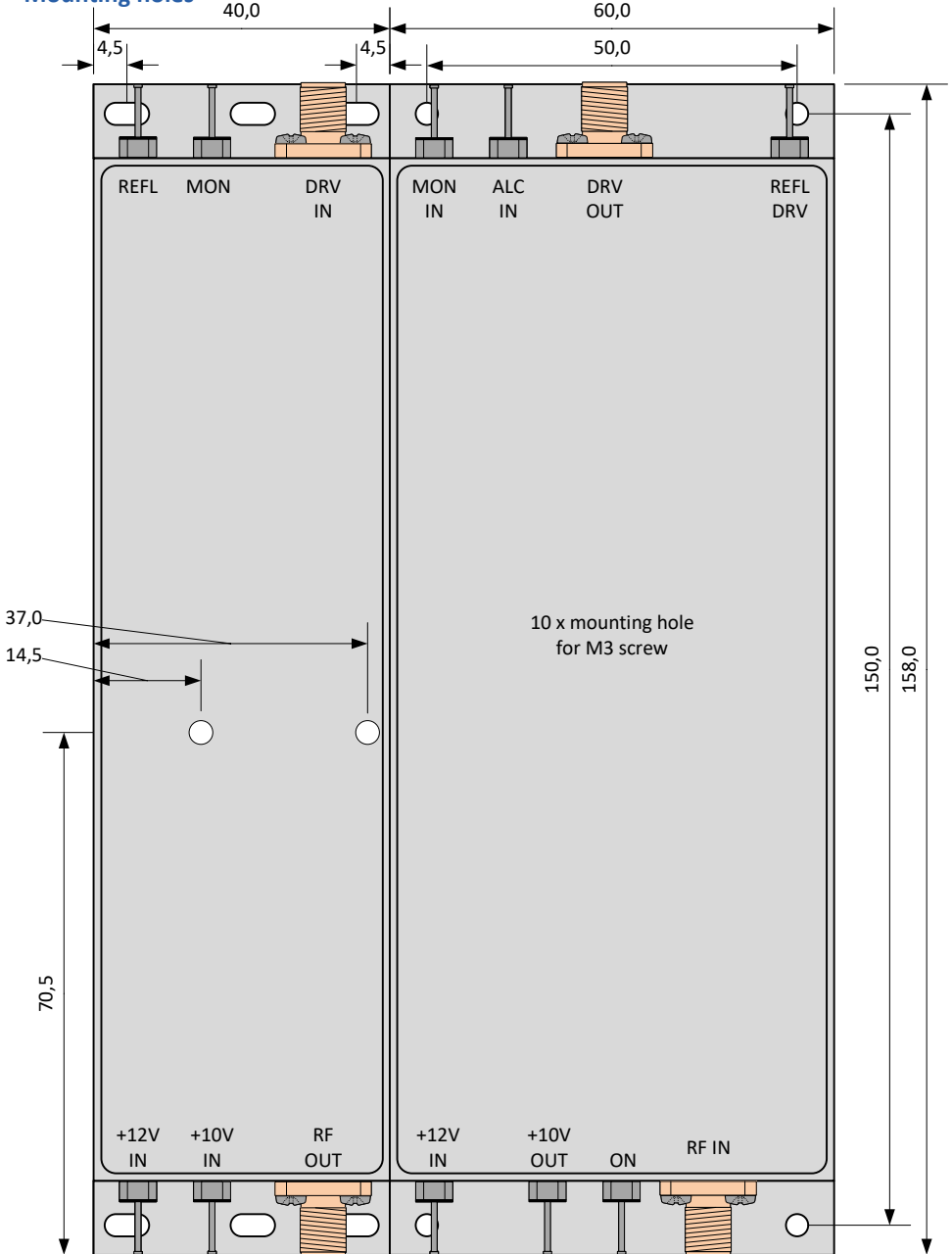
EMC directive 2014/30/EU  
 Low voltage directive 2014/35/EU  
 RoHS directive 2011/65/EU



Sig.: \_\_\_\_\_

QS.: \_\_\_\_\_

Mounting holes



Application example

