

03.06.2022

KU PA 640700 - 25A



Manual

Specification

Specifications (Ta = 25 °C):

Type	KU PA 640700 – 25A
Frequency range	6400 ... 7000 MHz
Input power For P1dB Maximum	typ. +2 dBm +6 dBm
Output power P1dB P1dB COFDM ¹⁾ COFDM ¹⁾ Automatic level control (ALC)	typ. 43.8 dBm, min. 42.5 dBm (CW) typ. 24 W, min. 18 W (CW) typ. 37 ... 38.5 dBm typ. 5 ... 7 W yes (adjustable ALC)
Gain Small signal Flatness (small signal)	typ. 46 dB, min. 42 dB typ. +/-3 dB
Harmonics Harmonic rejection @ 42.5 dBm	typ. 52 dB, min. 47 dB
Intermodulations IM3 @ 40 dBm PEP ²⁾ IM3 @ 42.5 dBm PEP ²⁾	typ. 35 dBc, min. 30 dBc typ. 20 dBc
Protection Output protection Over temperature protection Operating case temperature range	Isolator (max. 5 W reflected power) -20 ... +55 °C
Efficiency @ 42.5 dBm (CW)	typ. 18%, min. 13%
ON voltage Supply voltage	+5 ... 14 V DC +12 ... 14 V DC
Quiescent current	typ. 9.0 A
Current consumption	max. 12 A
Monitor output Forward detection Reverse detection	yes (Diode-Detector) yes (Diode Detector)
Mechanics Input connector / impedance Output connector / impedance Case Dimensions (mm) Weight	SMA-female, 50 ohms SMA-female, 50 ohms milled aluminium 158 x 100 x 20 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
- 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

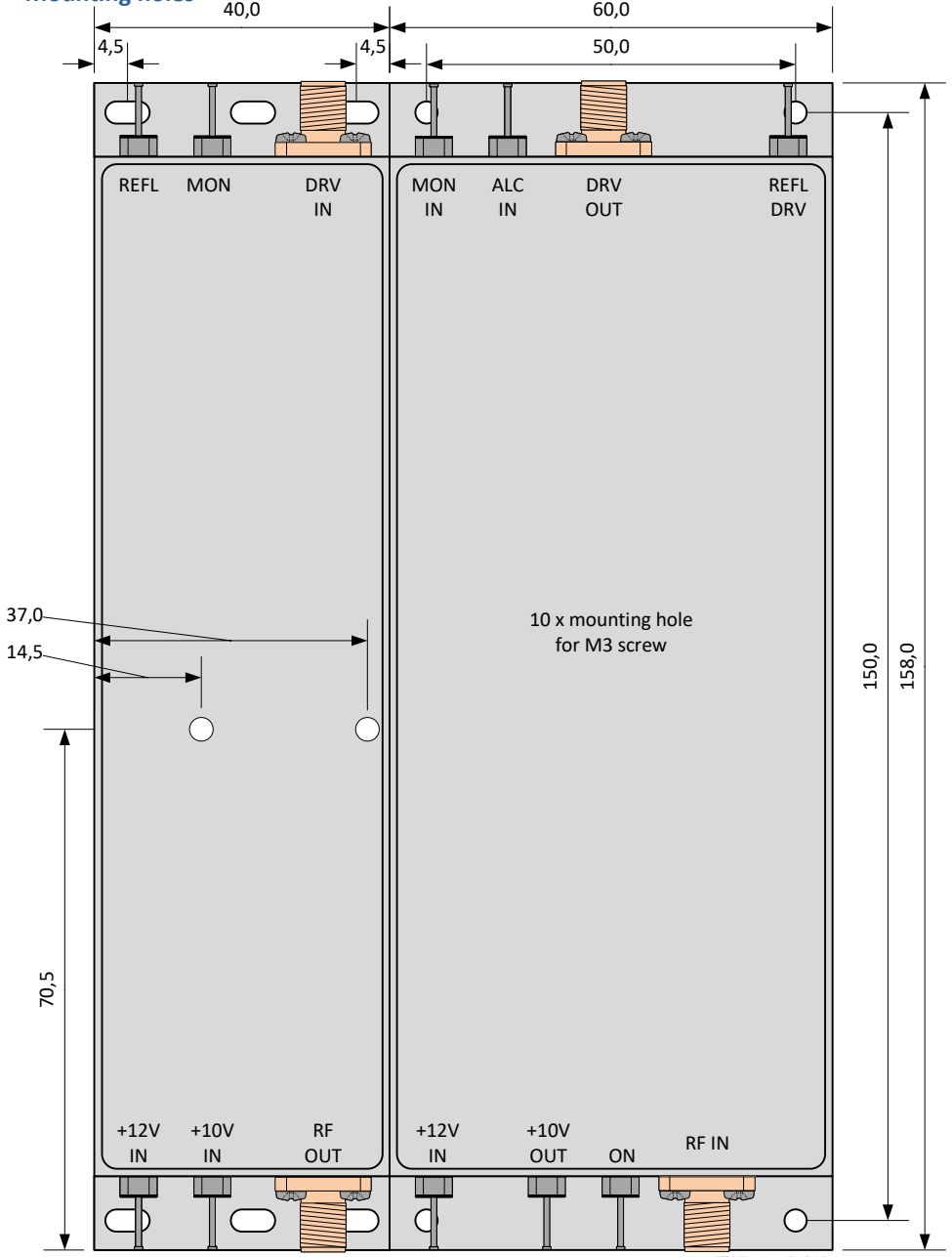
EMC directive 2014/30/EU
Low voltage directive 2014/35/EU
RoHS directive 2011/65/EU



Sig.: _____

QS.: _____

Mounting holes



Application example

