UHF-BAND LINEAR MOSFET POWER AMPLIFIER KU PA 040048 - 100 HY

Product Information

Specifications (Ta = 25 °C):

Type	**KU PA 040048 – 100 HY**
Frequency range	400 … 480 MHz
Input power	
For P3dB	min. 20 dBm
Maximum	23 dBm
Output power	
P1dB	min. 44.7 dBm (CW)
P1dB	min. 30 W (CW)
P3dB	typ. 50.4 dBm, min. 49.5 dBm (CW)
P3dB	typ. 110 W, min. 90 W (CW)
Gain	
Small signal	min. 34 dB
Flatness (small signal)	typ. +/-1 dB
Harmonics	
Harmonic rejection @ 50 dBm	min. 60 dB
Intermodulation distortions	
IM3 @ 49 dBm PEP 1)	typ. 27 dBc
Input return loss (S11)	typ. 20 dB, min. 15 dB
ON voltage	+12 V DC
Supply voltage	+12 … 14 V DC
Quiescent current	typ. 8 A
Current consumption @ saturation	max. 28 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	N-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	124 x 80 x 22
Weight	typ. 400 g

Features:

- Good linearity
- Built-in low pass filter for good harmonic rejection
- Reverse polarity protection
- Monitor outputs for forward power detection

Applications:

- Analog and digital transmission systems

Amplifier should be mounted on heat sink!

1) Two tone test; Δf=1MHz

CE Conformity:

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

CE

2023-07-10

Products are only to be sold to processing companies.
For operating high frequency modules legal instructions must be followed.

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KUHNE electronic
MICROWAVE COMPONENTS

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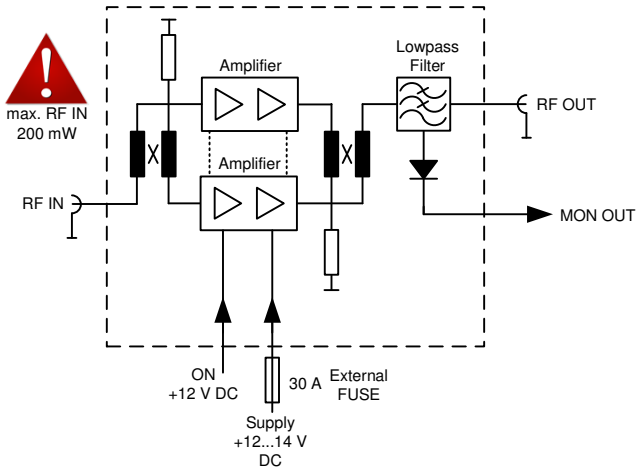
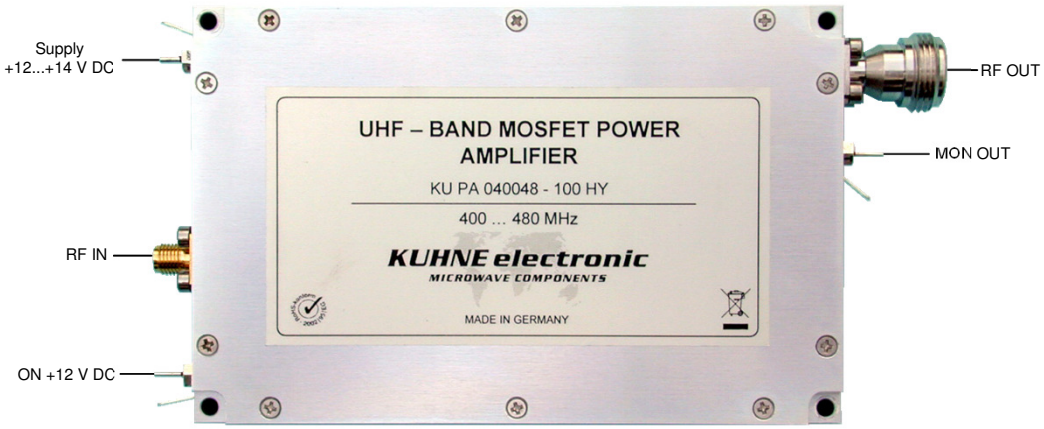
Product Information

Block diagram



ON……..supply DC voltage to „ON“ to switch power amplifier „ON“ (active)
MON OUT……Output which monitors forward power (DC voltage), not calibrated



Sig.:_____QS:_____

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