

# X-Band GaAs FET Power Amplifier KU PA 9501100 – 2 A

## Product Information

Product ID: \_\_\_\_\_

### Specifications (Ta = 25 °C):

**Type** KU PA 9501100 – 2 A

Frequency range 9500 ... 11000 MHz

#### Input power

For P1dB typ. 10 dBm  
Maximum 15 dBm

#### Output power

P1dB (9500...10500MHz) typ. 32.3 dBm, min. 31.7 dBm (CW)  
P1dB (9500...10500 MHz) typ. 1.7 W, min. 1.5 W (CW)  
P1dB (10500...11000 MHz) min. 30.8 dBm  
P1dB (10500...11000 MHz) min. 1.2 W  
P3dB typ. 33 dBm, min. 32.5 dBm (CW)  
P3dB typ. 2 W, min. 1.8 W (CW)  
COFDM 1) typ. 27.8, min. 26 dBm  
COFDM 1) typ. 0.6 W, min. 0.4 W

#### Gain

Small signal typ. 25 dB  
Flatness (small signal) typ. +/-2 dB

#### Harmonics

Harmonic rejection @ 31.7 dBm min. 50 dB

#### Intermodulation distortions

IM3 @ 27.8 dBm PEP 2) min. 40 dBc

Efficiency @ 33 dBm (CW) typ. 8 %, min. 7 %

Supply voltage +12 ... 14 V DC

Quiescent current typ. 1.8 A

Current consumption @ P1dB typ. 1.9 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) 80 x 60 x 20  
Weight typ. 150 g

#### Features:

- GaAs FET technology
- High linearity
- Good harmonic rejection
- High bandwidth
- Reverse polarity protection
- Monitor output for forward power detection (DC voltage)
- Small mechanical dimensions

#### Applications:

- Digital broadcast systems (DVB-T, DVB-S)
- COFDM systems using modulation types QPSK, QAM
- Analog transmission systems

#### Accessories:

- Recommended heat sink: SK 120 - 75

#### Amplifier should be mounted on heat sink!

1) Single carrier; 64 QAM; 8Msps; EVM=2%

2) Two tone test;  $\Delta f=1\text{MHz}$

#### CE Conformity:

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



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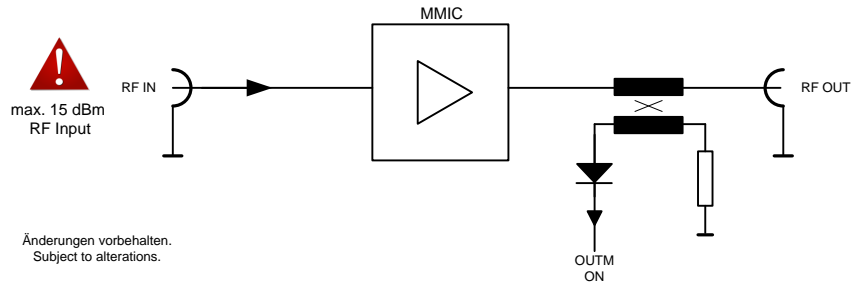


Products are only to be sold to processing companies.  
For operating high frequency modules legal instructions must be followed.

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### Block diagram



MON OUT.....Output which monitors forward power (DC voltage), not calibrated



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



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