

LDMOS UHF LINEAR POWER AMPLIFIER KU PA 070080 – 20 A

Product Information

Product ID: _____

Specifications (Ta = 25 °C):

Type KU PA 070080 – 20 A

Frequency range 770 ... 880 MHz

Input power

For P1dB typ. 14 dBm
Maximum 16 dBm

Output power

P1dB min. 43 dBm (CW)
P1dB min. 20 W (CW)
COFDM 1) min. 37 dBm
COFDM 1) min. 5 W

Gain

Small signal min. 30 dB
Flatness (small signal) max. +/-3 dB

Harmonics

Harmonic rejection @ 43 dBm min. 30 dB

Intermodulation distortions

IM3 @ 40 dBm PEP 2) typ. 42 dBc

Efficiency @ 44.7 dBm (CW) min. 40 %
Input return loss (S11) min. 10 dB

Supply

ON voltage +9 ... 14 V DC
Current @ ON pin typ. 6 mA
Supply voltage + 28 V DC
Quiescent current typ. 400 mA
Current consumption max. 3.5 A

Monitor output

Forward detection yes (Diode-Detector)

Limits

VSWR of load 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) 130 x 59 x 20
Weight typ. 235 g

Features:

- LDMOS technology
- Reverse polarity protection
- Monitor output for forward power detection (DC voltage)
- Milled aluminium case

Applications:

- Mobile communication
- COFDM systems using modulation types QPSK, QAM
- Analog transmission systems

Accessories:

- Recommended power supply: SP 150 W 27
- Recommended heat sink: SK 150 - 62
- Recommended fan: FAN 60x60 24 V

Important Notes:

Case should be mounted on heat sink or chassis!
(Rth (PA) = 0,75 K/W)

1) Single carrier; 64 QAM; 8MSPS

2) Two tone test; Δf=1MHz

CE Conformity:

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



2018-03-21

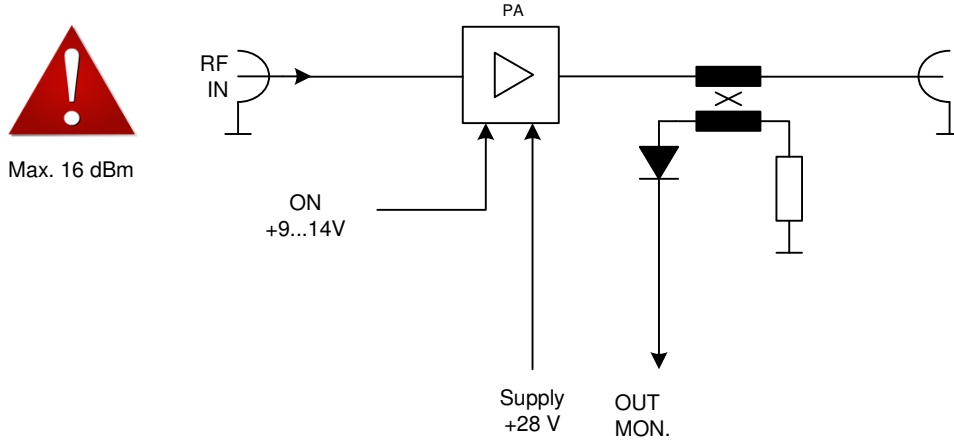


Products are only to be sold to processing companies.
For operating high frequency modules legal instructions must be followed.

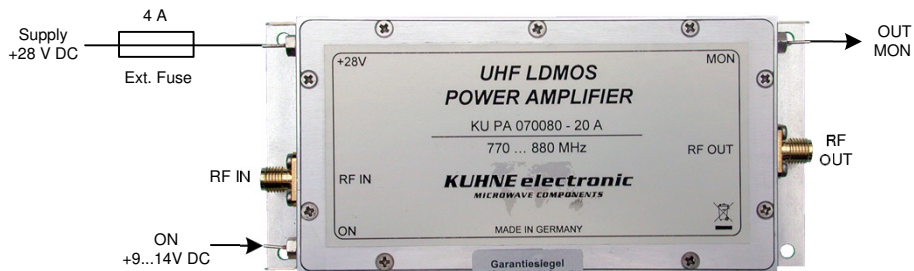
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Block diagram



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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