

# S-BAND LDMOS FET POWER AMPLIFIER KU PA 330360 – 16 A

## Product Information

### Specifications (Ta = 25 °C):

|  |  |
|--|--|
| <b>Type</b>  | <b>KU PA 330360 – 16 A</b>   |
| Frequency range  | 3300 ... 3600 MHz  |
| <b>Input power</b><br>For P1dB<br>Maximum  | typ. 20 dBm<br>27 dBm  |
| <b>Output power</b><br>P1dB<br>P1dB<br>P3dB<br>P3dB<br>COFDM 1)<br>COFDM 1)  | min. 42 dBm (CW)<br>min. 16 W (CW)<br>min. 44.1 dBm (CW)<br>min. 26 W (CW)<br>typ. 39 dBm, min. 37.7 dBm<br>typ. 8 W, min. 6 W |
| <b>Gain</b><br>Small signal<br>Flatness (small signal)   | typ. 27 dB, min. 24 dB<br>typ. +/-1 dB   |
| <b>Harmonics</b><br>Harmonic rejection @ 41.7 dBm  | typ. 32 dB, min. 28 dB   |
| <b>Intermodulation distortions</b><br>IM3 @ 40 dBm PEP 2)  | typ. 30 dBc  |
| Efficiency @ 43 dBm (CW)<br>Input return loss (S11)  | typ. 30 %<br>typ. 11 dB, min. 8 dB   |
| ON voltage<br>Supply voltage   | +9 ... 14 V DC<br>+28 V DC   |
| Quiescent current  | typ. 300, max. 380 mA  |
| Current consumption @ P1dB   | typ. 2,5 A   |
| <b>Monitor output</b><br>Forward detection   | yes (Diode-Detector)   |
| <b>Limits</b><br>VSWR of load<br>Operating case temperature range  | max. 1.8:1<br>-20 ... +55 °C   |
| <b>Mechanics</b><br>Input connector / impedance<br>Output connector / impedance<br>Case<br>Dimensions (mm)<br>Weight | SMA-female, 50 ohms<br>SMA-female, 50 ohms<br>milled aluminium<br>80 x 60 x 20<br>typ. 140 g                                   |

### Features:

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

### Applications:

- WIMAX
- COFDM – systems with modulation QPSK, QAM
- Analog transmission systems

### Amplifier should be mounted on heat sink!

- 1) Single carrier; 64 QAM; 8Msps; EVM=2%  
2) Two tone test;  $\Delta f=1$ MHz

### CE Konformität / CE Conformity

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



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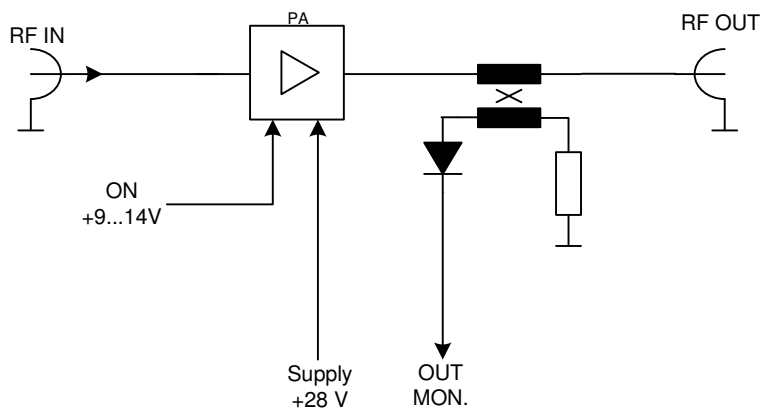


Products are only to be sold to processing companies.  
For operating high frequency modules legal instructions must be followed.

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### Block diagram



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



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



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