

V1.0

# KU PA BB 003055 - 100 B



## Manual

## Specification

### Specifications (T<sub>a</sub> = 25 °C):

<b>Type</b>	<b>KU PA BB 003055 – 100 B</b>
Frequency range	30 ... 550 MHz
<b>Input power</b> For P3dB Maximum	min +5 dBm +10 dBm
<b>Output power</b> P1dB P3dB P <sub>sat</sub>	typ. 49.5 dBm, min. 48.5 dBm (CW) typ. 50.5 dBm, min. 49 dBm (CW) min 50 dBm
<b>Gain</b> Small signal Flatness (small signal)	typ. 49 dB, min. 47 dB typ. +/-1.5 dB
<b>Harmonics</b> Harmonic rejection @ 47 dBm	typ. 15 dB (30 ... 250 MHz) typ. 30 dB (300 ... 550 MHz)
<b>Intermodulation distortions</b> IM3 @ 47 dBm PEP 1)	typ. 25 dBc
Efficiency @ 50 dBm (CW) Input return loss (S11)	typ. 50 % min. 10 dB
ON voltage Current @ ON pin Supply voltage	+9 ... 14 V DC typ. 30 mA +28 V DC
Quiescent current Current consumption @ P3dB	typ. 1.5 A max. 9 A
<b>Limits</b> VSWR of load Operating case temperature range	max. 1.8:1 -20 ... +55 °C
<b>Mechanics</b> Input connector / impedance Output connector / impedance Case Dimensions (mm) Weight	SMA-female, 50 ohms N-female, 50 ohms milled aluminium 192 x 80 x 22 typ. 580 g

### Features:

- LDMOS technology
- Reverse polarity protection
- ON / OFF control with DC voltage
- Milled aluminium
- Over temperature protection (@ 65°C case temperature)

### Applications:

- Analog transmission system
- Measurement, Laboratory equipment
- Jammer

### Accessories:

- Recommended power supply: SP 320 W 27
- Recommended heat sink: SK 200 - 160
- Recommended fan: 2 pieces FAN 80x80 24V

### Amplifier should be mounted on heat sink!

1) Two tone test; Δf=1MHz

### CE Konformität / CE Conformity

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



## Dimensions / Mounting holes

