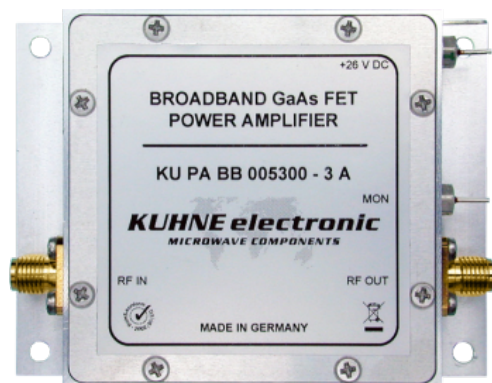


KU PA BB 005300-3 A, RF Broadband Power Amplifier

50 ... 3000 MHz • 3 W

analog & digital transmission systems EMC



Features

- GaAs FET technology
- Large bandwidth
- High gain
- Reverse polarity protection
- Monitor output for forward power detection (DC voltage)
- Milled aluminium case
- Small mechanical dimensions

Applications

- EMC measurement
- Additional power for standard signal generators
- Measurement and laboratory equipment
- Driver amplifier

Important notes

Please notice the following:

- The technical specifications refer to room temperature.
- The power amplifier doesn't contain any coaxial relays.
- The recommended combination of heat sink and fan(s) is only specified for an ambient temperature of 25 °C.
- Further information about dimensioning of heat sinks is available on our FAQ site.

Technical specifications:

Frequency range	50..3000 MHz
Input power for P1dB	min. +5 dBm
Maximum input power	+10 dBm
Output power P1dB	min. 34.7 dBm CW (50 ... 2000 MHz) min. 33 dBm CW (2000 ... 3000 MHz)
Output power P1dB	min. 3 W CW (50 ... 2000 MHz) min. 2 W CW (2000 ... 3000 MHz)
Output power COFDM (1)	min. 30 dBm (50 ... 2500 MHz) min. 27 dBm (2500 ... 3000 MHz)
Output power COFDM (1)	min. 1 W (50 ... 2500 MHz) min. 0.5 W (2500 ... 3000 MHz)
Gain (small signal)	min. 30 dB
Gain flatness (small signal)	typ. +/- 1 dB
Harmonic rejection	min. 20 dB @ 33 dBm
IM3 (2)	min. 35 dBc @ 30 dBm PEP
Efficiency	typ. 12 % @ 34.7 dBm (CW)
Input return loss (S11)	typ. 10 dB
Supply voltage	+24 ... 26 V DC
Current consumption	max. 1.0 A

Forward detection	yes (diode detector)
Operating case temp. range	-20 ... +55 °C
VSWR of load	max. 1.8 : 1
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	140 g (typ.)
(1)	Measured with QAM 64, single carrier, EVM: 2%
(2)	Measured 2-tone, frequency spacing: 1 MHz