

BROADBAND GaAs FET POWER AMPLIFIER KU PA BB 005300 – 3 A

Product Information

Product ID: _____

Specifications (Ta = 25 °C):

Type	KU PA BB 005300 – 3 A
Frequency range	50 ... 3000 MHz
Input power For P1dB Maximum	typ. 5 dBm, min. 3 dBm 10 dBm
Output power P1dB	min. 34,7 dBm CW (50 ... 2000 MHz) min. 33 dBm CW (2000 ... 3000 MHz)
P1dB	min. 3 W CW (50 ... 2000 MHz) min. 2 W CW (2000 ... 3000 MHz)
COFDM 1)	min. 30 dBm (50 ... 2500 MHz) min. 27 dBm (2500 ... 3000 MHz)
COFDM 1)	min. 1 W (50 ... 2500 MHz) min. 0,5 W (2500 ... 3000 MHz)
Gain Small signal Flatness (small signal)	min. 30 dB typ. +/-1 dB
Harmonics Harmonic rejection @ 33 dBm	min. 20 dB
Intermodulation distortions IM3 @ 30 dBm PEP 2)	min. 35 dBc
Efficiency @ 34,7 dBm (CW) Input return loss (S11)	typ. 12 % typ. 10 dB
Supply voltage	+24 ... 26 V DC
Quiescent current	typ. 950 mA
Current consumption	max. 1 A
Monitor output Forward detection	yes (Diode-Detector)
Limits VSWR of load Operating case temperature range	max. 1.8:1 -20 ... +55 °C
Mechanics Input connector / impedance Output connector / impedance Case Dimensions (mm) Weight	SMA-female, 50 ohms SMA-female, 50 ohms milled aluminium 80 x 60 x 20 typ. 140 g

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

Amplifier should be mounted on heat sink!

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

CE Conformity:

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



2023-05-26

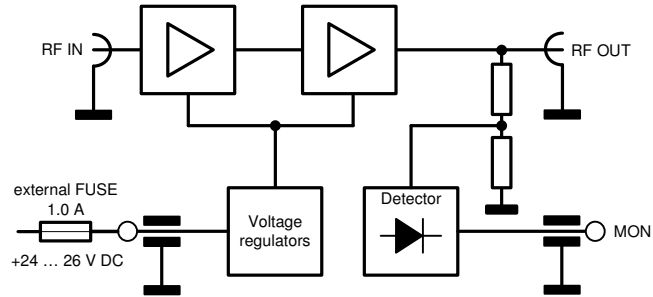


Products are only to be sold to processing companies.
For operating high frequency modules legal instructions must be followed.

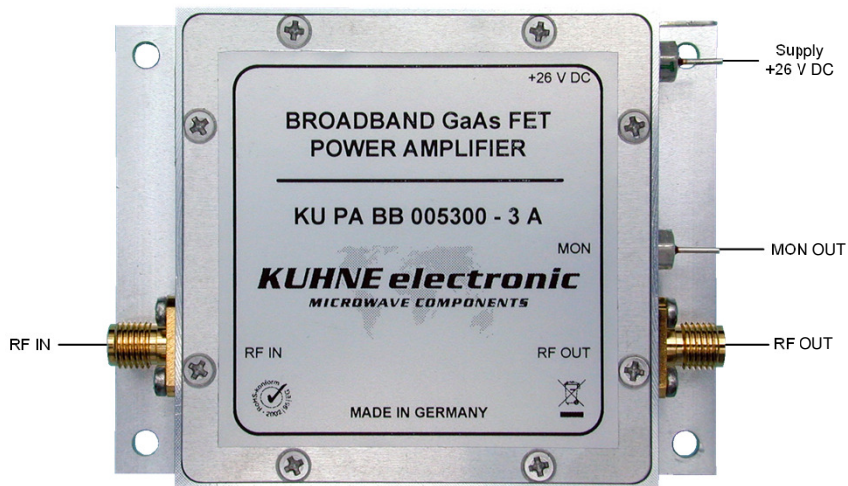
BROADBAND GaAs FET POWER AMPLIFIER KU PA BB 005300 – 3 A

Product Information

Block diagram



MON OUT.....Output which monitors forward power (DC voltage), Diode detector



Sig.: _____ QS: _____



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