

KU PA BB 005250-2 A, RF Broadband Amplifier

50 ... 2500 MHz • 2 W

analog & digital transmission systems EMC



Features

- Reverse polarity protection
- Monitor output for forward power detection (DC voltage)

Applications

- Test amplifier for high dynamic range applications
- Power amplifier for EMC measurement
- Power amplifier to increase the output level of standard signal generators or sweep signal generators

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..2500 MHz
Input power for P1dB	typ. +3 dBm
Maximum input power	+10 dBm
Output power P1dB	typ. 33 dBm, min. 32.5 dBm (CW) typ. 2 W, min. 1.8 W (CW)
Output power P3dB	typ. 34.7 dBm, min. 33.4 dBm (CW) typ. 3 W, min. 2.2 W (CW)
Gain (small signal)	typ. 33 dB, min. 31 dB
Gain flatness (small signal)	typ. +/- 1 dB
Noise figure @ 18 °C	typ. 4 dB
Harmonic rejection	typ. 30 dB, min. 25 dB @ 31.7 dBm
IM3 (1)	min. 35 dBc @ 30 dBm PEP
Efficiency	typ. 10 % @ 33 dBm PEP
Input return loss (S11)	min. 10 dB
Supply voltage	+24 ... 26 V DC
Current consumption	typ. 750 mA
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 2-tone, frequency spacing: 1 MHz