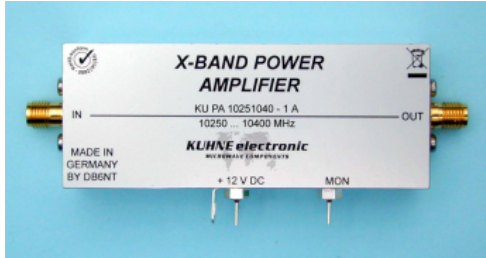


### KU PA 10251040-1 A, GaAs-FET Power Amplifier 10250 ... 10400 MHz • 1 W



#### Features

- Detector output (DC voltage) for monitoring forward output power
- Reverse polarity protection
- Small mechanical dimensions

#### Applications

- Analog and digital transmission systems

#### 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	10250..10400 MHz
Input power for P1dB	typ. 19 dBm
Maximum input power	+22 dBm
Output power P1dB	min. 30 dBm CW min. 1 W CW
Output power P3dB	min. 30.8 dBm min. 1.2 W
Output power COFDM (1)	min. 24 dBm min. 250 mW
Gain (small signal)	typ. 15 dB
Gain flatness (small signal)	typ. +/- 0.8 dB
Harmonic rejection	typ. 50 dB @ 30 dBm
IM3 (2)	min. 30 dBc @ 27 dBm PEP
Efficiency	typ. 15 % @ 30 dBm
Input return loss (S11)	min. 10 dB
Supply voltage	+12 ... 14 V DC
Quiescent current	typ. 0.5 A
Current consumption @ P1dB	typ. 1,2 A
Forward detection	yes (diode detector)
VSWR of load	max. 1.8 : 1
Operating case temp. range	-20 ... +55 °C
Input connector / impedance	SMA-female / 50 ohms
Output connector / impedance	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (mm)	76 x 30 x 17
Weight	70 g (typ.)
(1)	Measured with QAM 64, single carrier, EVM: 2%

(2)

Measured 2-tone, frequency spacing: 1 MHz