

KU PA BB 003350-15 B, Power Amplifier

30 ... 3500 MHz

Analog & digital transmission systems Measurement and laboratory equipment Communication systems Jammer applications

- High bandwidth
- Variety of analog monitor signals
- Very fast mute functionality
- High efficiency
- Low small and large signal gain ripple
- Available with one or two RF inputs

The KU PA BB 003350-15 A/B is the latest broadband power amplifier from KUHNE and was specially developed for jammer applications. Due to the high bandwidth and, at the same time, low gain ripple, the power amplifier can interfere with all mobile radio bands and many wireless standards.



Description

The KU PA BB 003350-15 A / B has a gain of at least 39 dB in large-signal operation at 15 W output power and can therefore be fed with a low input power of less than 2 mW. The amplifier has many monitor and control signals, for example the monitoring of temperature, current consumption, forward and reverse power as well as a fast mute function for switching off the RF signal. For the simultaneous disruption of several radio services, a B version with two equivalent RF inputs and an internal broadband combiner is available.

Features

- High bandwidth
- Variety of analog monitor signals
- Very fast mute functionality
- High efficiency
- Low small and large signal gain ripple

Technical specifications:

Frequency range	30..3500 MHz
Maximum input power	+17 dBm
Saturation power	min. 15 W (30 ... 2500 MHz)
	min. 10 W (2500 ... 3500 MHz)
Gain (small signal)	min. 45 dB
Gain	min. 39 dB
Gain flatness (small signal)	max. +/- 1.5 dB (30 ... 2500 MHz)
Flatness	max. +/- 2 dB (2500 ... 3500 MHz)
Noise figure @ 18 °C	max. 15 dB (30 ... 200 MHz)
	max. 9 dB (200 ... 3500 MHz)
Harmonic rejection	min. 12 dB
Over temperature protection	yes
IM3 (2)	min. 12 dBc @ 15 W PEP
Input return loss (S11)	min. 12 dB (30 ... 100 MHz)
Input return loss (S11)	min. 14 dB (100 ... 3500 MHz)
Supply voltage	+18 ... 36 V DC
Quiescent current	max. 2.5 A @ 24 V DC
Current consumption	max. 3,6 A @ 24 V DC

Forward detection	yes (log. detector)
Reflected power detection	yes (log. detector)
VSWR of load	max. 10 : 1
Input connector / impedance	SMA-female / 50 ohms
Output connector / impedance	SMA-female / 50 ohms
Case	milled aluminium
Dimensions (mm)	200 X 115 X 25 mm
Weight	950 g (typ.)
Duty Cycle	max. 100 %
mute functionality	Yes, high-active mute
Mute-functionality switching time	max. 5 us
Output power density at active mute	max. -140 dBm/Hz
Current consumption at active mute	max. 0.5 A @ 24 V DC