KU PA 140150-150 A, LD-MOS RF Power Amplifier

1400 ... 1500 MHz • 150 W

Nur noch 1 Stück verfügbar!

Features

- LD MOSFET technology
- High linearity
- High efficiency
- Reverse polarity protection
- Monitor output for forward power detection (DC voltage)
- ON / OFF control with DC voltage

Applications

- Digital broadcast systems (DAB, DVB)
- COFDM systems using modulation types QPSK, QAM
- Analog 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	1400..1500 MHz
Input power for P1dB	typ. 36 dBm
Maximum input power	39.5 dBm
Output power P1dB	typ. 51.7 dBm, min. 51.4 dBm (CW)
	typ. 150 W, min. 140 W (CW)
Output power P3dB	min. 52 dBm
	min. 160 W
Output power COFDM (1)	typ. 45,4 dBm, min. 44,7 dBm
	typ. 35 W, min. 30 W
Gain (small signal)	min. 14 dB
Gain flatness (small signal)	typ. +/-0.7 dB
Harmonic rejection	typ. 35 dB, min. 33 dB @ 50.5 dBm
IM3 (2)	min. 37 dBc @ 48.4 dBm PEP
Efficiency	typ. 48 % @ P1dB
Input return loss (S11)	typ. 10 dB, min. 6 dB
ON voltage	+9 ... 14 V DC
Supply voltage	+28 V DC
Quiescent current	typ. 1.5 A
Current consumption @ P1dB	typ. 10 A
Forward detection	yes (diode detector)
Operating case temp. range	-20 ... +55 °C

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Power Amplifiers

VSWR of load	max. 1.8 : 1
Input connector / impedance	SMA-female / 50 ohms
Output connector / impedance	N-female / 50 Ohms
Case	milled aluminium
Dimensions (mm)	130 x 60 x 20
Weight	260 g (typ.)
(1)	Measured with QAM 64, single carrier, EVM: 2%
(2)	Measured 2-tone, frequency spacing: 1 MHz

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