

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

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

KU PA 170220-30 A, RF Power Amplifier

1700 ... 2200 MHz • 30 W

The power amplifier is developed both for digital and analog transmission systems. By the use of LD-MOSFET technology high efficiency and low current consumption are reached at the same time.



Features

- LD-MOSFET-technology
- Reverse polarity protection
- Monitor output for forward power detection (DC voltage)
- Milled aluminium case

Applications

- WIMAX radio systems
- COFDM – systems with modulation QPSK, QAM
- Analog transmission systems
- Measurement and laboratory equipment

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	1700..2200 MHz
Input power for P1dB	typ. 17 dBm, min. 14 dBm
Maximum input power	+23 dBm
Output power P1dB	min. 44.7 dBm (CW) min. 30 W (CW)
Output power P3dB	min. 46 dBm min. 40 W
Output power COFDM (1)	min. 40 dBm min. 10 W
Gain (small signal)	typ. 30 dB, min. 28 dB
Gain flatness (small signal)	typ. +/- 1.5 dB
Harmonic rejection	typ. 30 dB, min. 25 dB @ 44.7 dBm
IM3 (2)	typ. 40 dBc @ 41.7 dBm PEP typ. 25 dBc @ 44.7 dBm PEP
Efficiency	typ. 35 %, min. 30 % @ 46 dBm
Supply voltage	+28 V DC
Quiescent current	typ. 0.5 A
Current consumption @ P3dB	typ. 4.5 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)	80 x 60 x 20
Weight	140 g (typ.)
(1)	Measured with QAM 64, single carrier, EVM: 2%
(2)	Measured 2-tone, frequency spacing: 1 MHz

KU PA 125145-30 A, RF Power Amplifier

1250 ... 1450 MHz • 30 W

RF Power Amplifier for 1.3 GHz

suitable for Video transmission

analog & digital transmission systems jamming



Features

- LD-MOSFET technology
- Good linearity
- High efficiency
- Reverse polarity protection
- Monitor output for forward power detection (DC voltage)

Applications

- Digital broadcast systems (DAB, DVB)
- COFDM systems using modulation types QAM, QPSK
- 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.
- Attention: The recommended fans need a supply voltage of 24 ... 28 V DC.

Technical specifications:

Frequency range	1250..1450 MHz
Input power for P1dB	typ. 25 dBm
Maximum input power	29 dBm
Output power P1dB	typ. 44 dBm, min. 44.7 dBm typ. 30 W, min. 25 W
Output power P3dB	min. 46 dBm typ. 40 W (CW)
Output power COFDM (1)	typ. 40 dBm, min. 39 dBm typ. 10 W, min. 8 W
Gain (small signal)	min. 21 dB
Gain flatness (small signal)	typ. +/- 0.5 dB, max. +/- 1 dB
Harmonic rejection	min. 18 dB @ 44.7 dBm (2. Harm.)
IM3 (2)	typ. 35 dBc, min. 30 dBc @ 43 dBm PEP
Efficiency	typ. 50 %, min. 46 % @ 44.7 dBm (CW)
Supply voltage	+28 V DC
Quiescent current	typ. 0.35 A
Current consumption	max. 3.5 A
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
(1)	Measured with QAM 64, single carrier, EVM: 2%
(2)	Measured 2-tone, frequency spacing: 1 MHz

KU PA 155160-25 A, Power Amplifier
1550 ... 1600 MHz • 25 W



Features

- LD-MOSFET technology
- Good linearity
- High efficiency
- Reverse polarity protection
- Monitor output for forward power detection (DC voltage)

Applications

- GPS Jammer

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	1550...1600 MHz
Input power for P1dB	typ. 23 dBm
Maximum input power	29 dBm
Output power P1dB	min. 44 dBm (CW) min. 25 W (CW)
Saturation power	min. 45,4 dBm min. 35 W
Output power COFDM (1)	min. 37 dBm min. 5 W
Gain (small signal)	min. 21 dB
Gain flatness (small signal)	+/- 0,5 dB, max. +/- 1dB (ALC not active)
Harmonic rejection	typ. 20 dB @ 25 W
IM3 (2)	min. 35 dBc @ 40 dBm PEP
Efficiency	min. 46 % @ 30 W (CW)
Supply voltage	+28 V DC
Quiescent current	typ. 300 mA
Current consumption	max. 3.5 A
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
(1)	Measured with QAM 64, single carrier, EVM: 2%

(2)

Measured 2-tone, frequency spacing: 1 MHz

KU PA 135155-25 A, Power Amplifier

1350 ... 1550 MHz • 25 W

RF Power Amplifier for 1.3 GHz

suitable for Video transmission

analog & digital transmission systems



Features

- LD-MOSFET technology
- Good linearity
- High efficiency
- Reverse polarity protection
- Monitor output for forward power detection (DC voltage)

Applications

- Digital broadcast systems (DAB, DVB)
- COFDM systems using modulation types QAM, QPSK
- 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.
- Attention: The recommended fans need a supply voltage of 24 ... 28 V DC.

Technical specifications:

Frequency range	1350..1550 MHz
Input power for P1dB	typ. 23 dBm
Maximum input power	29 dBm
Output power P1dB	min. 44 dBm (CW) min. 25 W (CW)
Saturation power	min. 45,4 dBm min. 35 W
Output power COFDM (1)	typ. 37.7 dBm min. 5 W
Gain (small signal)	min. 21 dB
Gain flatness (small signal)	typ. +/- 1.5 dB
Harmonic rejection	typ. 20 dB @ 25 W
IM3 (2)	min. 35 dBc @ 40 dBm PEP
Efficiency	min. 46 % @ 30 W (CW)
Supply voltage	+28 V DC
Quiescent current	typ. 300 mA
Current consumption	max. 3.5 A

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
(1)	Measured with QAM 64, single carrier, EVM: 2%
(2)	Measured 2-tone, frequency spacing: 1 MHz

KU PA 125160-45 A, Power Amplifier

1250 ... 1600 MHz • 45 W

- High efficiency
- Analog transmission systems
- COFDM (QAM, QPSK)

This power amplifier is designed for digital as well as analog radio systems. Furthermore, this power amplifier achieves a high relative bandwidth of over 24%.



Description

This power amplifier was specially developed and optimized for the frequency range from 1.25 GHz to 1.60 GHz. The result of this development is a power amplifier with a 1 dB compression point of over 40 watts and very good intermodulation behavior.

Features

- LD-MOSFET-technology
- Reverse polarity protection
- Monitor output for forward power detection (DC voltage)
- Milled aluminium case

Applications

- COFDM – systems with modulation QPSK, QAM
- Analog transmission systems
- Measurement and laboratory equipment

Important notes

Please notice the following:

- The technical specifications refer to room temperature.
- 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	1250..1600 MHz
Input power for P1dB	typ. 34.5 dBm, min. 33 dBm
Maximum input power	37.8 dBm
Output power P1dB	typ. 46.5 dBm, min. 46 dBm typ. 45 W, min. 40 W (CW)
Output power COFDM (1)	typ. 40 dBm typ. 10 W
Gain (small signal)	typ. 13 dB, min. 11 dB
Gain flatness (small signal)	typ. +/- 2 dB
Harmonic rejection	typ. 40 dB @ 46.5 dBm
IM3 (2)	typ. 45 dBc @ 44 dBm PEP
Efficiency	typ. 48 % @ 47 dBm (CW)
Supply voltage	+28 V DC
Quiescent current	typ. 380 mA

Current consumption	max. 5 A
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
(1)	Measured with QAM 64, single carrier, EVM: 2%
(2)	Measured 2-tone, frequency spacing: 1 MHz