KU PA 640720-10 A - RF Power Amplifier

6400 ... 7200 MHz • 10 W

Features

- GaAs FET technology
- High linearity (class A operation)
- Reverse polarity protection
- Monitor output for forward power detection (DC voltage)
- ON / OFF control with DC voltage (ON at 5 ... 14 V)

Applications

- 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	6400..7200 MHz
Input power for P1dB	typ. 3 dBm, max, 7 dBm
Maximum input power	+10 dBm
Output power P1dB	typ. 40 dBm, min. 39 dBm (CW)
	typ. 10 W, min. 8 W (CW)
Output power COFDM (1)	typ. 30 ... 34.7 dBm
	typ. 1 ... 3 W
Gain (small signal)	typ. 39 dB, min. 36 dB
Gain flatness (small signal)	typ. +/- 2 dB
Noise figure @ 18 °C	typ. 5 dB NF
Harmonic rejection	min. 35 dB @ 39 dBm
IM3 (2)	typ. 30 dBc @ 37 dBm PEP
	typ. 20 dBc @ 40 dBm PEP
Efficiency	typ. 18 %, min. 13 % @ 39 dBm (CW)
Input return loss (S11)	typ. 10 dB
ON voltage	+5 ... 14 V DC
Supply voltage	+12 ... 14 V DC
Quiescent current	typ. 4.5 A
Current consumption @ P1dB	typ. 4.5 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

Scheibenacker 3 | 95180 Berg | Germany
Tel.: +49 (0) 9293 - 800 640
Fax: +49 (0) 9293 - 800 6420

Low Noise Amplifiers

Dimensions (mm)	130 x 60 x 20
Weight	270 g (typ.)
(1)	Measured with QAM 64, single carrier, EVM: 2%
(2)	Measured 2-tone, frequency spacing: 1 MHz

Scheibenacker 3 | 95180 Berg | Germany
Tel.: +49 (0) 9293 - 800 640
Fax: +49 (0) 9293 - 800 6420