

# Linear High Power Amplifiers up to 100 W for the 23 cm Band

- MKU PA 1330 A - 30 Watts**
- MKU PA 1350 A - 50 Watts**
- MKU PA 13100 A - 100 Watts**
- MKU PA 13100 B - 100 Watts**

Our high power amplifiers for the 23cm band are based on LDMOS technology. They provide high linearity, high efficiency and offer a wide range of analog and digital applications



## Specifications

Type	MKU PA 1330 A	MKU PA 1350 A	MKU PA 13100 A	MKU PA 13100 B
Frequency range	1240...1300 MHz	1240...1300 MHz	1240...1300 MHz	1240...1300 MHz
RF input power	1 W	2.5 W	0.3 W	5 W
Maximum RF input power	1.5 W	max. 5 W	max. 0.5 W	max. 10 W
Output power	min. 30 W	min. 50 W	min. 100 W	min. 100 W
Saturation output power	typ. 40 W	typ. 60 W	typ. 120 W	typ. 120 W
Harmonic rejection	37 dB @ 30 W	39 dB @ 50 W	39 dB @ 100 W	39 dB @ 100 W
Efficiency	typ. 55 %	typ. 45 %	typ. 40 %	typ. 40 %
IM 3	-30 dBc @ 30 W PEP	-28 dBc @ 50 W PEP	-27 dBc @ 100 W PEP	-27 dBc @ 100 W PEP
IM 3	-48 dBc @ 10 W PEP	-48 dBc @ 20 W PEP	-38 dBc @ 30 W PEP	-38 dBc @ 30 W PEP
ON voltage (PTT)	+12...14 V	+12...14 V	+12...14 V	+12...14 V
Input return loss (S11)	typ. 10 dB	typ. 7 dB	typ. 10 dB	typ. 10 dB
VSWR of load	1.8 : 1	1.8 : 1	1.8 : 1	1.8 : 1
Maximum case temperature	55 °C	55 °C	55 °C	55 °C
Monitor Output	Yes	Yes	Yes	Yes
Supply voltage	+26 V	+26 V	+26 V	+26 V
Current consumption	max. 3.5 A	max. 5 A	max. 14 A	max. 14 A
Quiescent current	typ. 0.5 A	typ. 0.5 A	typ. 2 A	typ. 2 A
Input connector	SMA-female / 50 ohms	SMA-female / 50 ohms	SMA-female / 50 ohms	SMA-female / 50 ohms
Output connector	SMA-female / 50 ohms	SMA-female / 50 ohms	N-female / 50 ohms	N-female / 50 ohms
Case	60 x 130 x 20	60 x 130 x 20	80 x 192 x 22	124 x 80 x 22
Dimensions (mm)	milled aluminium	milled aluminium	milled aluminium	milled aluminium
Weight	ca. 240 g	ca. 240 g	ca. 570 g	ca. 370 g
Recommended Power Supply Unit	S 150 W 24	S 150 W 24	SP 320 W 24	SP 320 W 24
Recommended Heat Sink	SK 120-75	SK 150-62	SK 200-80	SK 200-80

Amplifiers for other frequencies available on request.