

Pricelist for Amateur Radio Components

last update 04.2012

All prices include 19% V.A.T

Reference frequency amplifier

MKU LNA 10 IFA Preamplifier, 9 ... 11 MHz, NF typ. 4.0 dB, Gain 14 ... 16 dB, BNC-female 68,00 €

Amplifier for the 2 m-Band 144 - 146 MHz

MKU LNA 144 A preamplifier with bandpass filter, NF typ. 0.35 dB, Gain typ. 25 dB, input con. N-male 224,00 €
 MKU LNA 144 A Option 7/16 preamplifier with bandpass filter, NF typ. 0.35 dB, Gain typ. 25 dB, input con. 7/16 249,00 €
 MKU PA 70 HY VHF-MOSFET-power amplifier, 68...75 MHz, 20 mW in, 35 W out, +13.5 V on request
 MKU PA 1317-60 HY VHF-MOSFET power amplifier, 130...170 MHz, 50 mW in, typ. 60 W out, MON, +12...14V on request

Amplifier for the 70 cm-Band 430 - 440 MHz

MKU LNA 432 A preamplifier with bandpass filter, NF typ. 0.4 dB, Gain >20 dB, input con. N-male 224,00 €
 MKU LNA 432 A Option 7/16 preamplifier with bandpass filter, NF typ. 0.4 dB, Gain >20 dB, input con. 7/16 249,00 €
 MKU PA 4047-60 HY UHF-MOSFET power amplifier, 400...470 MHz, 50 mW in, typ. 60 W out, MON, +12...14V on request
 MKU PA 4047-120 HY UHF MOSFET power amplifier, 400...470 MHz, 0,1 W in, typ. 120 W out, MON, +12...14V on request

Amplifiers for the 1090 MHz IFF-Band

KU LNA 1090 A Selective preamplifier, NF typ. 0.5 dB, Gain > 30 dB 129,00 €
 KU LNA 1090 A TM Amplifier mounted into a water resistant case, NF typ. 0.5 dB, Gain > 30 dB 163,00 €

Amplifiers for the 23 cm-Band 1250 - 1300 MHz

MKU LNA 131 AH preamplifier, NF typ. 0.4 dB +/- 0.05, Gain typ. 20 dB 198,00 €
 MKU LNA 132 AH preamplifier, NF typ. 0.4 dB +/- 0.05, Gain typ. 33 dB 248,00 €
 MKU LNA 132 A Selective preamplifier, NF typ. 0.7 dB, Gain >35 dB 129,00 €
 MKU LNA 132 A2 Selective preamplifier, NF typ. 0.7 dB, Gain >35 dB, incl. 13cm notch (2350 MHz notch) 129,00 €
 MKU LNA 132 A2 TM Amplifier mounted into a water resistant case, NF typ. 0.7 dB, Gain > 35 dB, incl. 13cm notch 162,00 €
 MKU PA 133 HY2 MOSFET Hybrid Power Amplifier, 1260 ... 1300 MHz, 0,1 W in, typ. 30 W out, MON, 13,8 V on request
 MKU PA 1301 A GaAs FET Power Amplifier, max. 50 mW in, typ. 1 W out, 12 V on request
 MKU PA 1330 A MOSFET Power Amplifier, 1 W in, 30 - 40 W out, MON, 26 V on request
 MKU PA 1350 A MOSFET Power Amplifier, 4 W in, 50 - 60 W out, MON, 26 V on request
 MKU PA 13100 A MOSFET Power Amplifier, 0,3 W in, 100 - 120 W out, MON, 26 V on request
 MKU PA 13100 B MOSFET Power Amplifier, 5 W in, 100 - 120 W out, MON, 26 V on request
 MKU PA 13200 A MOSFET Power Amplifier, 0,5 W in, 200 - 230 W out, incl. Sequencer + MON, 26 V on request
 MKU PA 13200 B MOSFET Power Amplifier, 15 W in, 200 - 230 W out, incl. Sequencer + MON, 26 V on request
 MKU PA 13250 CU MOSFET Power Amplifier, 4-6 W in, 250 W out, MON, 50 V on request
 MKU PA 13500 CU MOSFET Power Amplifier, 15 W in, 500 W out, incl. Sequencer + MON, 28 V on request
 MKU PA 131000 CU MOSFET Power Amplifier, 30 W in, 1000 W out, incl. Sequencer + MON, 50 V on request

Power Splitters / Combiners

MKU DIV 1300-1-SMA Power Splitter, Center-freq. 1296 MHz, +/- 30 MHz, typ. 3.1dB, use to combine two power ampl. SMA-female, max. total power 50 Watt on request
 MKU DIV 1300-1-N Power Splitter, Center-freq. 1296 MHz, +/- 30 MHz, typ. 3.1dB, use to combine two power ampl. N-female, max. total power 600 Watt on request
 MKU DIV 1300-1-7/16 Power Splitter, Center-freq. 1296 MHz, +/- 30 MHz, typ. 3.1dB, use to combine two power ampl. input N-female, output 7/16-female, max. total power 1200 Watt on request
 MKU DIV 1300-4-7/16 Power Splitter, Center-freq. 1296 MHz, +/- 30 MHz, typ. 3.1dB, use to combine two power ampl. 7/16-female, max. total power 2000 Watt on request
 MKU DIV 2300-1-SMA Power Splitter, Center-freq. 2320 MHz, +/- 30 MHz, typ. 3.1 dB, use to combine two power ampl. SMA-female, max. total power 50 Watt on request
 MKU DIV 2300-1-N Power Splitter, Center-freq. 2320 MHz, +/- 30 MHz, typ. 3.1 dB, use to combine two power ampl. N-female, max. total power 600 Watt on request
 MKU DIV 2300-1-7/16 Power Splitter, Center-freq. 2320 MHz, +/- 30 MHz, typ. 3.1 dB, use to combine two power ampl. input N-female, output 7/16-female, max. total power 1200 Watt on request

Low Noise Amplifiers for Avionics, Radio Astronomy and Satellite Reception

KU LNA 142 AH preamplifier, NF max. 0.4 dB, Gain typ. 33 dB 249,00 €
 KU LNA 8000 A X-Band preamplifier 8,0 - 8,45 GHz, Gain 20 dB, NF 0,7 dB, input con. waveguide R100/WG16/WR90 410,00 €
 KU LNA 8000 A-SMA X-Band preamplifier 8,0 - 8,45 GHz, Gain 20 dB, NF 0,7 dB, input con. SMA-female 267,00 €

Amplifiers for the 13 cm-Band 2320-2450 MHz, center frequency 2350 MHz (2304 MHz USA)

MKU LNA 232 A2 Selective preamplifier, NF typ. 0.7 dB, Gain >35 dB, incl. 23cm notch (1250 MHz notch) 129,00 €
 MKU LNA 232 A2 TM Amplifier mounted into a water resistant case, NF typ. 0.7 dB, Gain >35 dB, incl. 23cm notch 162,00 €
 MKU LNA 231 AH preamplifier, NF typ. 0.4 dB, Gain typ. 16 dB 198,00 €
 MKU LNA 232 AH preamplifier, NF typ. 0.5 dB, Gain typ. 30 dB 248,00 €
 MKU PA 232 AL2 GaAs FET power amplifier, in 5 mW / 0.8 ... 1 W out, MON 166,00 €
 MKU PA 231 HXL-2 GaAs FET power amplifier, in 1 W / typ. 20 W out, MON on request
 MKU PA 231 TX GaAs FET power amplifier, in 700 mW / typ. 5 W out, MON on request
 MKU PA 231 XL GaAs FET power amplifier, in 1 W / typ. 10 W out, MON on request
 MKU PA 232 HXL-2 GaAs-FET power amplifier, in 80 mW / typ. 23 W out, MON on request
 MKU PA 2345 A MOSFET Power Amplifier, 1,6 W in, 40 W out, MON, 28 V on request
 MKU PA 23130 A MOSFET Power Amplifier, 5 W in, 130 W out, MON, 28 V on request
 MKU PA 23400 CU MOSFET Power Amplifier, 1,2 W in, 400 W out, incl. Sequencer + MON, 28 V on request

High Power Amplifiers for Professional Use - Please request!

Amplifiers for the 9 cm-Band 3400 MHz (3456 MHz USA)

MKU LNA 341 AH	preamplifier, NF typ. 0,5 dB, Gain min 14 dB, input con. N-male, output con. N-female	198,00 €
MKU LNA 342 AH	preamplifier, NF typ. 0,5 dB, Gain typ. 28 dB, input con. N-male, output con. N-female	248,00 €
MKU PA 341 A	GaAs FET power amplifier, in typ. 250 mW / typ. 4 W out, MON	on request
MKU PA 341 HXL	GaAs FET power amplifier, 3400 - 3600 MHz, in 1,2 W, 25 Watt out Psat (CW)	on request
MKU PA 342 AXL	GaAs-power amplifier, in 40 mW / >4 Watt out, MON	on request
MKU PA 3410 A	MOSFET-power amplifier, in typ. 200 mW / P1dB typ. 9 W, Psat typ. 14 W, MON, 28 V	on request
MKU PA 3430 A	MOSFET-power amplifier, in max. 500 mW / Psat 30 W, MON, 28 V	on request
MKU PA 3440 A	MOSFET-power amplifier, 1,5 W in, 40 W out, MON, 28 V	on request
MKU PA 34100 A	MOSFET-power amplifier, 10 W in, 100 W out, MON, 28 V	on request
MKU PA 34350 CU	MOSFET-power amplifier, 1 W in, 350 W out, incl. sequencer + MON, 28 V	on request

Amplifiers for the 6 cm-Band 5760 MHz

MKU LNA 571 A	preamplifier, NF typ. 0,7 dB, Gain typ. 12 dB, input con. SMA-male	166,00 €
MKU LNA 571 B	preamplifier, NF typ. 0,7 dB, Gain typ. 12 dB, input con. SMA-female	166,00 €
MKU LNA 572 A	preamplifier, NF typ. 0,7 dB, Gain typ. 25 dB, input con. SMA-male	239,00 €
MKU LNA 572 B	preamplifier, NF typ. 0,7 dB, Gain typ. 25 dB, input con. SMA-female	239,00 €
MKU LNA 572 AF	preamplifier with filter, NF typ. 0,7 dB, Gain typ. 25 dB, input con. SMA-male	249,00 €
MKU LNA 572 BF	preamplifier with filter, NF typ. 0,7 dB, Gain typ. 25 dB, input con. SMA-female	249,00 €
MKU PA 602	GaAs FET power amplifier, in 100 mW / >4 W out, MON	on request
MKU PA 602 H	GaAs FET power amplifier, in 200 mW / >8 W out, MON	on request
MKU PA 602 XH	GaAs FET power amplifier, in 300 mW / >15 W out, MON	on request
MKU PA 5750 A	GaAs FET power amplifier, in 200 mW / > 50 W out, MON	on request
MKU PA 57100 A	GaAs FET power amplifier, in 200 mW / > 100 W out, MON	on request

Amplifiers for the 3 cm-Band 10...10,5 GHz

MKU LNA 101 AS	preamplifier, NF typ. 0,8 dB, Gain typ. 12 dB, input con. SMA-male	184,00 €
MKU LNA 101 BS	preamplifier, NF typ. 0,8 dB, Gain typ. 12 dB, input con. SMA-female	184,00 €
MKU PA 101 HLK	GaAs FET power amplifier, typ. 200 mW in, min. 2 W out	on request
MKU LNA 102 A	preamplifier, NF typ. 0,8 dB, Gain typ. 22 dB, input con. SMA-male	179,00 €
MKU LNA 102 B	preamplifier, NF typ. 0,8 dB, Gain typ. 22 dB, input con. SMA-female	184,00 €
MKU LNA 102 S-EME	preamplifier, NF typ. 0,7 dB, Gain >23 dB, input R 100, output SMA	239,00 €
MKU PA 102 AL	GaAs FET power amplifier, 10 mW in, >200 mW out, MON	189,00 €
MKU PA 102 C	GaAs FET power amplifier, 50 mW in, >1 W out, MON	on request
MKU PA 102 X	GaAs FET power amplifier, 200 mW in, typ. 5 W out, MON	on request
MKU PA 102 XL	High power GaAs FET amplifier, typ. 200 mW in, typ. 10 W out, MON	on request

Amplifiers for the 1,2 cm-Band 24...24,25 GHz coaxial connectors - SMA

MKU PA 245 PAC4	GaAs MMIC power amplifier, typ. 10 mW in, 1 W out, MON	on request
MKU LNA 243 CS2	amplifier, NF max. 2,3 dB, Gain >24 dB	268,00 €
MKU PA 243 C	amplifier, in 0,1 mW, out >20 mW	217,00 €
MKU PA 244 CH	GaAs FET amplifier, 8 mW in, typ. 80 mW out, MON	268,00 €
MKU PA 2403 A	GaAs MMIC power amplifier, 20 mW in, 3 W out, MON	on request
MKU PA 2410 AW	GaAs MMIC power amplifier, 20 mW in, 10 W out, MON, output R220 / WG20 / WR42	on request

Amplifiers for the 1,2 cm-band 24...24,25 GHz waveguide R 220

MKU LNA 243 WS 2	preamplifier, NF typ. 1,5 dB (max. 1,8 dB), Gain >26 dB	295,00 €
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Amplifiers for the 1,2 cm-band 24...24,2 GHz waveguide - SMA

MKU LNA 243 RX 2	preamplifier, NF typ. 1,5 dB (max. 1,8 dB), Gain >26 dB	278,00 €
MKU PA 244 TX	GaAs FET amplifier, 8 mW in, 90 mW out, MON	268,00 €

Amplifier for the 47 GHz Band

MKU LNA 472 B	47 GHz amplifier, 47088 MHz, NF max. 5 dB, Gain >27 dB, saturation output power 30 mW	696,00 €
MKU LNA 473 A	47 GHz amplifier, 47088 MHz, NF max. 5 dB, Gain >25 dB, saturation output power typ. 150 mW	795,00 €

Microwave Converters

MKU LNC 23	ATV Converter, in 2320 - 2450 MHz, out 1500 MHz, NF 0,7 dB, Gain 40 dB	183,00 €
MKU LNC 23 TM	ATV Converter mounted into water resistant case, in 2320 - 2450 MHz, out 1500 MHz	216,00 €
MKU LNC 23 CON2	Converter, in 2320 MHz, out 144 MHz, NF typ. 0,7 dB, Gain 26 dB, incl. notch filter	262,00 €
MKU LNC 24 OSCAR2	Converter, in 2400 MHz, out 144 MHz, NF typ. 0,7 dB, Gain typ. 30 dB, incl. notch filter	259,00 €
MKU LNC 24 OSCAR opt. 70	Converter, in 2400 MHz, out 432 MHz, NF typ. 0,7 dB, Gain typ. 30 dB (min. 26 dB)	259,00 €
MKU LNC 24 OSCAR2 opt. 6 m	Converter, in 2400 MHz, out 50 MHz, NF typ. 0,7 dB, Gain typ. 30 dB, incl. notch filter	259,00 €
MKU LNC 24 TM OSCAR2	Converter mounted into water resistant case, in 2400 / out 144, NF typ. 0,7 dB, Gain typ. 30 dB, notch	292,00 €
MKU LNC 24 TM OSCAR opt. 70	Converter mounted into water resistant case, in 2400 / out 432, NF typ. 0,7 dB, Gain typ. 30 dB (min. 26)	292,00 €
MKU LNC 24 TM OSCAR2 opt. 6m	Converter mounted into water resistant case, in 2400 / out 50, NF typ. 0,7 dB, Gain typ. 30 dB, notch	292,00 €
MKU LNC 34	ATV Converter, in 3400 - 3475 MHz, out 1600 MHz, NF typ. 0,9 dB, Gain 38 dB	199,00 €
MKU LNC 34 TM	Converter mounted into water resistant case, in 3400 - 3475 MHz, NF typ. 0,9 dB, Gain 38 dB	230,00 €
MKU LNC 57-3	ATV-Conv. 5600-5900 / out 1450-1650 MHz IF, NF max. 1,0 dB, Gain typ.40 dB, IN N-female	252,00 €
MKU LNC 57-3 TM	Converter mounted into water resistant case, in 5600 - 5900 MHz, NF max.1,0 dB, N-female	284,00 €
KU LNC 8084 B PRO	Converter, milled aluminium case , 8,42 GHz, Gain 28 dB typ., NF 1,2 dB typ.	551,00 €
MKU LNC 10 OSCAR	Converter, in 10451 MHz, out 432 MHz, NF typ. 1,2 dB, Gain 20 dB	320,00 €
MKU LNC 10 CON	Converter, in 10368 MHz, out 432 MHz, NF typ. 1,2 dB, Gain 20 dB	320,00 €

DB 6 NT Microwave Transverter

MKU 70 G2	70 MHz Transverter, NF typ. 1,5 dB, 100 mW RF out	369,00 €	NEW!
MKU 144 G2	2 m Transverter, NF typ. 0,9 dB, 100 mW RF out	425,00 €	
MKU 432 G2	70 cm Transverter, NF typ. 1,1 dB, 70 mW RF out	425,00 €	
MKU 13 G3	23 cm Transverter, NF 0,8 dB, 2,5 W RF out	425,00 €	
MKU 13 G3 28	23 cm Transverter for 28 MHz IF. Ext. TX-filter necessary, NF 0,8 dB, 2,5 W RF out	425,00 €	
MKU 23 G3	13 cm Transverter 2320 MHz / 144 MHz, max. 0,8 dB NF, typ. 1 W RF out	462,00 €	
MKU 23 G3 option USA	13 cm Transverter 2304 ... 2306 MHz / 144 MHz, max. 0,8 dB NF, typ. 1 W RF out	462,00 €	
MKU 23 G3 option 2400 MHz	13 cm Transverter 2400 ... 2404 MHz / 144 ... 148 MHz, max. 0,8 dB NF, typ. 1 W RF out	462,00 €	
MKU 34 G3	9 cm Transverter, NF max. 0,9 dB, typ. 400 mW RF out	537,00 €	
MKU 34 G3 432	9 cm Transverter, IF = 432 MHz, NF max. 0,9 dB, typ. 400 mW RF out	537,00 €	
MKU 57 G3	6 cm Transverter, NF 1,0 dB, typ. 250 mW RF out	537,00 €	
MKU 57 G3 432	6 cm Transverter, IF = 432 MHz, NF 1,0 dB, typ. 250 mW RF out	537,00 €	
MKU 10 G3	3 cm Transverter, NF typ. 1,2 dB, typ. 200 mW	537,00 €	
MKU 10 G3 432	3 cm Transverter, IF = 432 MHz, NF typ. 1,2 dB, typ. 200 mW	537,00 €	
MKU 24 G2 144	24 GHz Transverter, IF = 144 MHz, typ. 4,0 dB NF, min. 20 mW	549,00 €	NEW!
MKU 24 G2 432	24 GHz Transverter, IF = 432 MHz, typ. 4,0 dB NF, min. 20 mW	549,00 €	NEW!

MKU 24 GA	Transverter 24 GHz, milled aluminium case, 12 GHz LO	198,00 €
MKU 24 GC	Transverter 24 GHz, milled aluminium case, 12 GHz LO	198,00 €
MKU 47 G	Transverter 47 GHz, NF typ. 8 dB DSB (12 GHz LO)	522,00 €
OPTION	"Professional" milled aluminium case for MKU 23 G3 / 34 G3 / 57 G3 / 10 G3	100,00 €

Transverter System for 70 MHz

TR 70 H	High Performance 70 MHz Transverter 69,9-72 MHz, 27,9-30 MHz IF, 20 Watts RF out, drive gain control on the front panel	1.139,00 €
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Transverter System for the 2 m-Band incl. High Intercept Point Converter +40 dBm

TR 144 H +40	High Performance 2 m Transverter 144 -146 MHz, 28-30 MHz IF, 25 Watts RF out High intercept point converter typ. +40 dBm, Input for 10 MHz reference frequency IF input power 1 ... 50 mW, internal adjustable attenuator / internally switchable to range 60...1000 µW / 0...-12 dBm Drive gain control on the front panel, common IF connector for RX/TX Two separate IF connectors can be switched to one common IF connector	1.385,00 € Upgrade!
Opt. 05	Intermediate frequency (IF) 14 ... 16 MHz	27,00 €

Transverter System for the 70 cm-Band

TR 432 H	High Performance 70 cm Transverter 432 - 434 MHz, 28-30 MHz IF, 20 Watts RF out	1.385,00 € Upgrade!
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Transverter System for the 23 cm-Band

TR 1296 H - 144 MHz	High Performance 23 cm Transverter 1296 - 1298 MHz + 1268 - 1270 MHz, 144 - 146 MHz IF, 20 Watts RF out	1.335,00 € Upgrade!
TR 1296 H - 28 MHz	High Performance 23 cm Transverter 1296 - 1298 MHz + 1268 - 1270 MHz, 28 - 30 MHz IF, 20 Watts RF out	1.385,00 € Upgrade!

Transverter System for the 13 cm-Band

TR 2320 H	High Performance 13 cm Transverter 2320 - 2322 MHz, 144 - 146 MHz IF, 15 Watts RF out	1.350,00 €
TR 2320 H - 2304	High Performance 13 cm Transverter 2304 - 2306 MHz, 144 - 146 MHz IF, 15 Watts RF out	1.350,00 €
TR 2320 H - 2400	High Performance 13 cm Transverter 2400 - 2402 MHz, 144 - 146 MHz IF, 15 Watts RF out	1.350,00 €

Transverter Switch Unit

TR 6 SW	Transverter Switch Unit for up to 6 transverter	498,00 €
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Accessories for Transverters

TX-cable	TX-cable	5,00 €
RX-cable	RX-cable	5,00 €
IF-cable	IF-cable IC 7800	5,00 €
K3-cable	K3-cable - Remote cable for transceiver Elecraft K3	8,80 €
Cinch cable	Cinch cable	3,50 € NEW!

Frequency Multipliers

MKU XN 57 TX	Active Multiplier 1.4 - 5.7 GHz, 10 mW in, 200 mW out	210,00 €
MKU XN 10 TX	Active Multiplier 2.5 - 10 GHz, 10 mW in, 200 mW out	210,00 €

L-Band to K-Band Oscillator Modules (crystal oscillators)

MKU 13 BAKE	BEACON Transmitter 1296.9 MHz beacon band, typ. 0.8 W out	350,00 €
MKU 13 BAKE opt. 01	BEACON Transmitter 1296.9 MHz, without oscillator, with connector for external OCXO	275,00 €
MKU 23 BAKE opt. 01	BEACON Transmitter 2320.9 MHz, without oscillator, with connector for external OCXO	300,00 €
MKU 34 BAKE opt. 01	BEACON Transmitter 3400.9 MHz, without oscillator, with connector for external OCXO	275,00 €
MKU 57 BAKE	BEACON Transmitter 5760.9 MHz beacon band, typ. 150 mW out	345,00 €
MKU 57 BAKE opt. 01	BEACON Transmitter 5760.9 MHz, without oscillator, with connector for external OCXO	270,00 €
MKU 10 BAKE	BEACON Transmitter 10368.9 MHz beacon band, typ. 200 mW out	350,00 €
MKU 10 BAKE opt. 01	BEACON Transmitter 10368.9 MHz, without oscillator, with connector for external OCXO	270,00 €
MKU LO 12	12 GHz Oscillator typ. 35 mW out	298,00 €
MKU LO 12 PLL	12 GHz Oscillator > 35 mW out, with PLL for external 10 MHz Referenz	349,00 €
MKU LO 12 opt. 01	12 GHz LO unit typ. 35 mW out, without oscillator, with connector for external OCXO	230,00 €
MKU LO 13 opt. 01	13 GHz LO unit >20 mW out, without oscillator, with connector for external OCXO	295,00 €
MKU LO 15	15 GHz LO unit >20 mW out, without oscillator, with connector for external OCXO	298,00 €
MKU LO 24	24 GHz Oscillator, 5 mW out	290,00 €
MKU LO 95	9486 MHz Oscillator, 35 mW out for 76 GHz	290,00 €
MKU LO 95 opt.01	9486 MHz LO unit, 35 mW out, without oscillator, with connector for external OCXO	230,00 €
MKU LO 95 PLL	9486 MHz, PLL-stabilized Crystal Oscillator, >35 mW out	349,00 €
MKU XO 1 PLL	PLL-stabilized Crystal Oscillator, typ. 1 mW out	228,00 €
MKU XO 2 OSC	Double oscillator module, 120.0 / 120.889 MHz, 1 mW	238,00 €

ATV - Transmitters

MKU ATV 10 B	Transmitter, baseband in - 10 GHz out, typ. 200 mW, can be adjusted	248,00 €
MKU ATV 10 H	Transmitter, baseband in - 10 GHz out, typ. 1 Watt, can be adjusted, MON	393,00 €
MKU ATV 12	Transmitter, baseband in - 12 GHz out, typ. 20 mW, can be adjusted	194,00 €
MKU ATV 12 opt. 01	Oscillator module without FBAS input	157,00 €
MKU ATV 24	Transmitter, baseband in - 24 GHz out, typ. 100 mW, can be adjusted, inkl. direct. coupler +Det.	452,00 €
MKU ATV 24-2	Transmitter, baseband in - 24 GHz out, typ. 300 mW, can be adjusted, inkl. direct. coupler +Det.	647,00 €

FET Frequency Doublers (Output frequency 24...24.25 GHz)

MKU X2 1224	Frequency doubler, in 12 GHz - 13 dBm, out 24 GHz - 19 dBm For use as millimeter wave LO , please specify frequency! Input and output SMA-connectors	418,00 €
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mm-Band Frequency Multipliers

MKU X2 23-47 S	Varactor multiplier, in 23 GHz - 100 mW, out 47 GHz typ. 15 mW	295,00 €
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Low Pass Filters - Detector

MKU BPF 24-1-SMA	Lowpass, 24048 MHz, SMA-female, Insertion loss max. 0.2 dB	115,00 €
MKU BPF 24-2-SMA	Lowpass, 24048 MHz, SMA-female, Insertion loss max. 0.3 dB	115,00 €
MKU BPF 24-3-WR42	Lowpass, 24048 MHz, waveguide R220 / WG20 / WR42, Insertion loss max. 1,5 dB	60,00 € New!
MKU BPF 47-1-WR19	Lowpass, 47088 MHz, waveguide R500 / WR19 / WG24, Insertion loss max. 3 dB	50,00 € New!
MKU LPF 23-N	Lowpass for the 13 cm Band N-female	45,00 €
MKU LPF 40-SMA	Lowpass, 3000 - 4000 MHz, SMA-female	95,00 €

Bias Tee

KU BT 271 N	Bias Tee, N connectors	47,00 €
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Sequence controller

SEQ 1	SMD-Sequence controller module for maximum 1A DC power	17,00 €
SEQ 2	SMD-Sequence controller module for maximum 4A DC power	20,00 €
SEQ 3	SMD-Sequence controller module for maximum 18A DC power, +12 ... 15 V DC	26,00 €
SEQ 4	SMD-Sequence controller module for maximum 18A DC power, +12 ... 32 V DC	27,00 €

Heat sinks and fans

SK 120 - 75	1,25 K/W, 150x75x40 mm	16,00 €
SK 150 - 62	high-performance-dissipator 150 x 62 x 75 mm, for blower 60 x 60 mm, 0,21 K/W	27,00 €
SK 200 - 80	high-performance-dissipator 200 x 80 x 85 mm, for blower, 80 x 80 mm, 0,13 K/W	52,00 €
SK 200 - 125	high-performance-dissipator 200 x 125 x 75 mm, for 2 x blowers 60 x 60 mm, 0,09 K/W	47,00 €
SK 200 - 160	high-performance-dissipator 200 x 160 x 85 mm, for 2 x blowers 80 x 80 mm, 0,065 K/W	95,00 €
SK 300 - 62	high-performance-dissipator 300 x 62 x 75 mm, for blower, 60 x 60 mm, 0,14 K/W	49,00 €
SK 320 - 240	high-performance-dissipator 320 x 240 x 85 mm, for 3 blower 80 x 80 mm, 0,03 K/W	279,00 €
WK 15-12	Liquid cold plate, 152 x 127 x 15,2 mm, 0,012 °C/W at 15 l / min	83,00 €
Arctic Silver 5	high-performance heat conductive paste (contains silver), 3,5 g	7,80 €
Blower 60 x 60, 12 V	incl. screen grid	15,00 €
Blower 60 x 60, 24 V	incl. screen grid	15,00 €
Blower 60 x 60 HP, 12 V	High-performance blower incl. screen grid	18,20 €
Blower 60 x 60 HP, 24 V	High-performance blower incl. screen grid	18,20 €
Blower 80 x 80, 12 V	incl. screen grid	15,00 €
Blower 80 x 80 HP, 12 V	High-performance blower incl. screen grid	18,20 €
Blower 80 x 80, 24 V	incl. screen grid	15,00 €
Blower 80 x 80 HP, 24 V	High-performance blower incl. screen grid	18,20 €

Power supply - closed module style

S 150 W 12	12 V / 12,5 Amp	38,00 €
SP 150 W 13.5	13,5 V / 11,2 Amp.	48,00 €
S 150 W 24	24 - 26 V / 6,5 Amp	48,00 €
SP 150 W 27	27 V / 5,6 Amp	53,00 €
SP 200 W 12	12 V / 16,7 Amp	65,00 €
SP 320 W 12	12 V / 25 Amp	89,00 €
SP 320 W 13.5	13,5 V / 22 Amp	89,00 €
SP 320 W 24	24 - 26 V / 12,5 Amp	89,00 €
SP 320 W 27	27 V / 11,7 Amp	89,00 €
SP 500 W 12	12 V / 40 Amp	159,00 €
SP 500 W 24	24 - 26 V / 20,0 Amp	159,00 €
SP 500 W 27	27 V / 18 Amp	159,00 €
SP 500 W 48	48 V / 10 Amp	159,00 €
RSP 1500 W 27	27 V / 56 Amp	485,00 €
RSP 2400 W 48	48 V / 50 Amp	596,00 €

Circulator

VAM1018	Circulator, 1250...1300 MHz, max. 500 W CW	330,00 €
VAN1053 A	Circulator, 1275 ... 1325 MHz, max. 1000 W CW	540,00 €

Changeover plate

WP472B	Mechanical changeover plate for mm-wave amplifier MKU LNA 472 B	115,00 €
WP473A	Mechanical changeover plate for mm-wave amplifier MKU LNA 473 A	115,00 €
WP761B	Mechanical changeover plate for mm-wave amplifier MKU LNA 761 B	115,00 €

Waveguide transition

MKU WGT 24-1-SMAF	K-Band waveguide transition, 24 GHz, waveguide R220 / WR42 / WG20, SMA-female	50,00 € New!
MKU WGT 24-1-SMAM	K-Band waveguide transition, 24 GHz, waveguide R220 / WR42 / WG20, SMA-male	50,00 € New!

Mounting plate

MP 5030	Mounting plate for power amplifier, 50 x 46 x 2 mm, aluminium	13,00 €
MP 6030	Mounting plate for power amplifier, 60 x 46 x 2 mm, aluminium	13,00 €
MP 7330	Mounting plate for power amplifier, 73 x 46 x 2 mm, aluminium	13,00 €
MP 7640	Mounting plate for power amplifier, 76 x 56 x 2 mm, aluminium	13,00 €
MP 7630	Mounting plate for power amplifier, 76 x 46 x 3 mm, aluminium	13,00 €
MP 7045	Mounting plate for power amplifier, 70 x 61 x 3 mm, aluminium	13,00 €
MP 8055	Mounting plate for power amplifier, 80 x 71 x 3 mm, aluminium	13,00 €

Further components for professional applications you can find our our website www.kuhne-electronic.de

The products are only to be sold to processing companies or to radio amateurs with a licence.

For operating the high frequency modules the legal instructions have to be considered.

Delivery without CE mark.

All prices are **including legal VAT 19%**. -delivery plus freight costs. - Errors and alterations reserved.

With the publication of this price list all previous price lists become invalid.

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Price list PCBs including 19% VAT

Apr 12

Order number - PCB description

01 - PCB broadband amplifier 0,5...2,5 GHz typ. 1 W	UKW Ber. 2.97	26,00 €
02 - PCB 12/24 GHz doubler	DUBUS 1-2.92	9,50 €
03 - PCB 5,7GHz 8 W PA	DUBUS 3.92	26,00 €
04 - PCB 10 GHz 4 W PA 2-stage	DUBUS 4.91	20,00 €
05 - PCB 10 GHz 4/8 W PA 1-stage	-----	20,00 €
06 - PCB 10 GHz 4 W PA 2-stage für Mitsubshi FET's	DUBUS 12.98	20,00 €
07 - PCB 10 GHz 8 W PA 2-stage	-----	26,00 €
08 - PCB 10 GHz HEMT-pre stage DK	DUBUS 3.95	18,50 €
09 - PCB 10 GHz beacon	-----	23,00 €
10 - PCB 12 GHz LO MK4	RO4003 through-connection	26,00 €
11 - PCB 24 GHz HEMT ampl. coaxial	DUBUS 4.93	13,50 €
12 - PCB 24 GHz HEMT ampl. waveguide	DUBUS 4.93	13,50 €
13 - PCB 24 GHz PA ampl. coaxial	DUBUS 4.93	13,50 €
14 - PCB 24 GHz PA ampl. waveguide	DUBUS 4.93	13,50 €
15 - PCB 24 GHz HEMT amp. coax. only f.NE32584C!	DUBUS 3.96	18,50 €
16 - PCB 24 GHz HEMT amp. waveguide only for "	DUBUS 3.96	18,50 €
17 - PCB 24 GHz PA Amp. wg in - coax out > beacon	DUBUS 4/page 347	15,50 €
18 - PCB 24 GHz Amp. wg in - coax out	DUBUS 2.97	15,50 €
19 - PCB 24 GHz HEPA 4-stage amplifier waveguide	Dorsten 2.97	18,50 €
20 - PCB 24 GHz HEPA 4-stage amplifier coax.	Dorsten 2.97	18,50 €
21 - PCB 24 GHz MK2 transverter	DUBUS 1.93	20,50 €
22 - PCB 24 GHz MK3 Transverter waveguide	DUBUS 2.98	18,50 €
23 - PCB 24 GHz MK3 Transverter coaxial	DUBUS 2.98	18,50 €
24 - PCB 24 GHz LO	-----	22,50 €
25 - PCB 47 GHz mixer	DUBUS 1.94	15,50 €
26 - PCB 47 GHz IF	DUBUS 1.94	5,50 €
27 - PCB 76 GHz mixer x 4	DUBUS 2.92	15,50 €
28 - PCB 76 GHz IF	DUBUS 1.94	5,50 €
29 - PCB 76 GHz mixer x 2	DUBUS 1.94	15,50 €
30 - PCB 25.3/76 GHz tripler	DUBUS 1.94	15,50 €
31 - PCB 120 GHz multiplier by 3	Dorsten 2005	15,50 €
32 - PCB 120 GHz multiplier by 5	Dorsten 2005	15,50 €
33 - PCB 23/47 GHz doubler	DUBUS 4.93	15,50 €
34 - PCB 19/38 GHz doubler	DUBUS 1.94	18,50 €
35 - PCB 120 GHz RX mixer	Dorsten 2005	15,50 €
36 - PCB 145 GHz mixer	DUBUS 2.94	15,50 €
37 - PCB 241 GHz mixer	DUBUS 2.94	15,50 €
38 - PCB Speed control of KR400 Rotor series	UKW Berichte 2/99	9,20 €
39 - PCB 30,5 - 61 GHz multiplier	DL2AM Dubus 4.2006	15,50 €
40 - PCB 120 GHz SHM-Mixer	DL2AM Dubus 4.2006	15,50 €
41 - PCB 40 - 80 GHz multiplier		15,50 €
42 - PCB 240 GHz, 80 GHz LO		15,50 €
43 - PCB 40 - 240 GHz mixer/multiplier, 40 GHz LO x 6		15,50 €
44 - PCB 40 - 80 multiplier WG		15,50 €
45 - PCB 76 GHz SHM, input WR 28 waveguide, output 2,7 mm waveguide		15,50 €
46 - PCB 40/80 GHz Doppler, input WR 28, output 3 mm waveguide		15,50 €
47 - PCB 40/120 GHz Tripler / Mixer, input WR 28, output 1,8 mm waveguide		15,50 €
48 - PCB 47 GHz Mixer LO - R220	DL2AM Dubus 2010	15,50 €
49 - PCB Frequency doubler 23-47 GHz, output rectangular waveguide R500 / WR19 / WG24		15,50 €
50 - PCB 23 cm band upconverter		26,00 €
51 - PCB 3.4 GHz beacon		23,00 €
52 - PCB LNA 132 B2		19,50 €
53 - PCB LNA 132 B TM		19,50 €
54 - PCB LNA 232 A2 (incl. MDR 641)		25,00 €
55 - PCB 2.3 GHz beacon		23,00 €

Parts

SMC-connector f. coaxcable 3,2 mm straight		3,70 €
Diode BAT 15-03W		2,00 €
Waterproof case for MKU LNC 23 / LNC 34 / LNA 132A2 incl. mastclip (not drilled)		15,50 €
Replacement fuse for TR 144 / 432 H	50 mA quick	4,10 €
Procom waveguide flanges WR 12, 76 GHz		14,50 €
Procom waveguide flanges WR 19, 47 GHz		10,50 €
Procom waveguide flanges WR 42, 24 GHz		6,00 €
Case TR144/432, size 80x260x240mm	Extrusion/cover alu, same case as "TR" transverter series	95,00 €
Stainless steel screws assortment	1620 parts	79,00 €
Precision crystal heater 40 °C QH40A		13,00 €
Thermal cut-out thermostat TS-65/10		12,50 € NEW!

Kits

Kit 1,3 GHz 13G2B	transverter (all parts you need, description)	199,00 €
Kit 1,3 GHz 13G2B-28	transverter (all parts you need, description) with 28 MHz IF	199,00 €
Kit 2,3GHz 23G2	transverter MK2 (all parts you need, description)	289,00 €
Kit 2,3GHz 23G2, Option for extern. OCXO	transverter MK2 for extern.OCXO, (all parts, description)	273,00 €
Kit 2,3GHz 23G2, OSCAR	2400 MHz transverter MK2 (all parts, description)	289,00 €
Kit 2,3GHz 23G2, Opt. USA	transverter MK2 (all parts you need, description) 2304MHz	289,00 €
Kit 3,4GHz 34G2	transverter MK2 (all parts you need, description)	314,00 €
Kit 5,7GHz 57G2	transverter MK2 (all parts you need, description)	314,00 €

Kit 5,7GHz 57G2, Option for extern. OCXO	transverter MK2 (all parts, description)	299,00 €
Kit 10 GHz 10G2	transverter MK2 (all parts you need, description)	340,00 €
Kit 10 GHz 10G2, Option for extern. OCXO	transverter MK2 (all parts, description)	320,00 €
Kit MKU PA 1360	23 cm power amplifier 60 W	126,00 €
Case for Kit 1360	suitable case for Kit MKU PA 1360	49,98 €
100 - Kit 24 GHz HEMT ampl. coaxial vers.	(3 x NE32584 C + 1 PCB No.15 + 1 x Drawing/circuit)	40,00 €
101 - Kit 24 GHz HEMT ampl. waveg. vers.	(3 x NE32584 C + 1 PCB No.16 + 1 x Drawing/circuit)	40,00 €
102 - Kit 24 GHz MK2 transverter	(1 x PCB No.21 + 2 x BAT 15-W3 + 1 pF)	25,00 €
103 - Kit 24 GHz MK3 transverter waveg	(1 x PCB No.22 + 2 x BAT 15-W3 + 3 x BAR64-03W + 1 x BFP196)	28,50 €
104 - Kit 24 GHz MK3 transverter coaxial	(1 x PCB No.23 + 2 x BAT 15-W3 + 3 x BAR64-03W + 1 x BFP196)	28,50 €

Deliver plus freight costs (to expenditure)

All prices are including legal VAT 19%.

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Phone: 0049 (0) 92 93 - 800 939 Fax: 0049 (0) 92 93 - 800 938

Fax and Mail - in Order Form

Sold to: Ship to: (if different)

Name:..... Name:.....

Call sign:..... Call sign:.....

Address: Address:

ZIP / City:..... ZIP / City:.....

Country: Country:

Phone:..... Phone:.....

Fax: Fax:

E-Mail:

Payment method: Money transfer to our bank account, foreign countries pay advance please

..... payment via Paypal

..... Visa Card Euro / Master Card

CC#

Exp. Date:..... Security code: ___ __ __
(On the backside of the card.)

Model	Short description	Quantity	Unit Cost	Total
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.....
.....

..... shipping + handling

Sub total:.....

Date, Signature:

How did you find us?

regular customer via internet recommendation print medium advertisement other

Kuhne electronic GmbH, Scheibenacker 3, D-95180 Berg / Oberfr.

Shipment for foreign customers

Inside EC:

Private customers inside of EC will be treated as domestic customers. They will be charged with our German V.A.T. of 19% which is included in our prices.

Outside EC:

Normely our prices are including 19% German V.A.T. which is not to be paid by foreign customers. Please deduct German VAT which is included in our price list.

Please pay in advance!

After getting an order our invoice will be sent which has to be prepaid before delivering; this can be done by money transfer to our post account or by payment via PayPal (Payment by PayPal-> plus 3% of the total ammount by orders from foreign countries).

You may charge your order on MasterCard or Visa.
Please use the Fax and Mail - in Order Form for Credit Cards.



Shipping charges: at cost

Banking connection:

Post-office-current account Nürnberg

Account no.: 108 321 855

Bank code: 760 100 85

For bank transfer from abroad you have to use please:

IBAN: DE51 7601 0085 0108 321 855

SWIFT-Code: PBNKDEFF760

Kreis- und Stadtsparkasse Hof

Account no.: 220 407 191

Bank code: 780 500 00

For bank transfer from abroad you have to use please:

IBAN: DE27 7805 0000 0220 4071 91

SWIFT-Code: BYLADEM1HOF