

Pricelist for Microwave Components

radio amateur list - last update 09.2008

All prices include 19% V.A.T

Amplifier for the 2 m-Band 144 - 146 MHz

MKU LNA 144 A PHEMT preamplifier with bandpass filter, NF max. 0.35 dB, Gain typ. 25 dB, input con. N-male 224,00 €

Amplifier for the 70 cm-Band 430 - 440 MHz

MKU LNA 432 A PHEMT-preamplifier with bandpass filter, NF typ. 0.4 dB, Gain >20 dB, input con. N-male 224,00 €

Amplifiers for the 1090 MHz IFF-Band

KU LNA 1090 A Selective HEMT 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 A HEMT HEMT preamplifier, NF typ. 0.5 dB, Gain > 17 dB, input con. SMA-male 163,00 €
 MKU LNA 131 B HEMT HEMT preamplifier, NF typ. 0.5 dB, Gain > 17 dB, input con. SMA-female 163,00 €
 MKU LNA 131 AH-HEMT HEMT preamplifier, NF typ. 0.4 dB +/- 0.05, Gain typ. 20 dB 198,00 €
 MKU LNA 132 AH-HEMT HEMT preamplifier, NF typ. 0.4 dB +/- 0.05, Gain typ. 33 dB 248,00 €
 MKU LNA 132 A Selective HEMT preamplifier, NF typ. 0.7 dB, Gain >35 dB 129,00 €
 MKU LNA 132 A2 Selective HEMT 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 LNA 132 B Selective HEMT preamplifier, NF typ. 0.7 dB, Gain typ. 15 dB 118,00 €
 MKU PA 133 HY2 MOSFET Hybrid Power Amplifier, 0.1 W in, typ. 30 W out, MON, 13,8 V on request
 MKU PA 1360 HY MOSFET Hybrid Power Amplifier, 0.2 W in, typ. 60 W out, MON, 13,8 V on request
 MKU PA 1301 A GaAs FET Power Amplifier, max. 50 mW in, typ. 1 W out, Gain typ. 13 dB, 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, 0.2 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 13120 HY MOSFET Hybrid Power Amplifier, 0.4 W in, typ. 120 W out, MON, 13,8 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, inkl. Sequencer + MON, 26 V on request
 MKU PA 13500 CU MOSFET Power Amplifier, 15 W in, 500 W out, inkl. Sequencer + MON, 28 V on request **NEW!**

Power Splitters / Combiners

KU DIV 1575 Power Splitter, Center-freq.1575 MHz, +/- 50 MHz, typ.3dB, use of two GPS-rec.with common antenna 103,00 €
 MKU DIV 1300-1K Power Splitter, Center-freq.1296 MHz, +/- 30 MHz, typ.3,1dB, use to combine two power ampl.(13500A) on request **NEW!**

Amplifiers for the Radio Astronomy Band 1350 - 1450 MHz

KU LNA 141 AH-HEMT HEMT preamplifier, NF max. 0.4 dB, Gain > 17 dB 199,00 €
 KU LNA 142 AH-HEMT HEMT preamplifier, NF max. 0.4 dB, Gain typ. 33 dB 249,00 €

Amplifier for the INMARSAT Band 1500 MHz

KU LNA 152 A Selective HEMT preamplifier, NF typ. 0.7 dB, Gain >35 dB 129,00 €

Amplifiers for GPS 1575 MHz

KU LNA 1575 / 4 SMA Selective HEMT preamplifier, NF typ. 0.7 dB, Gain typ. 47 dB, output connectors 4 x SMA-female 595,00 €
 KU LNA 1575-50 Selective HEMT preamplifier, NF max. 0.5 dB, Gain typ. 55 dB, output connector 1 x SMA-female 354,00 €

Amplifier for the METEOSAT Band 1700 MHz

KU LNA 172A Selective HEMT preamplifier, NF typ. 0.7 dB, Gain > 35 dB 129,00 €

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

MKU LNA 232 A2 Selective HEMT 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 232 B Selective HEMT preamplifier, NF typ. 0.7 dB, Gain >15 dB 119,00 €
 MKU LNA 231 A HEMT HEMT preamplifier, NF max. 0.6 dB, Gain > 16 dB, input con. SMA-male 166,00 €
 MKU LNA 231 B HEMT HEMT preamplifier, NF max. 0.6 dB, Gain > 16 dB, input con. SMA-female 166,00 €
 MKU LNA 231 AH-HEMT HEMT preamplifier, NF typ. 0.4 dB, Gain typ. 16 dB 198,00 €
 MKU LNA 232 AH-HEMT HEMT 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 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 TX GaAs FET power amplifier, in 80 mW / typ. 5 W out, MON on request
 MKU PA 233 TX GaAs FET power amplifier, in <10 mW / typ. 5 W out, MON on request
 MKU PA 233 XL GaAs FET power amplifier, in 50 mW / typ. 10 W out, MON on request
 MKU PA 234 XL GaAs FET power amplifier, in 2 mW / typ.10 W out, MON on request
 MKU PA 2345 A MOSFET Power Amplifier, 1 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 A 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!

Broadband Amplifiers

KU LNA BB 1018 A	Low noise broadband amplifier 100 ... 180 MHz, Gain 20 dB, SMA-female, built-in bias tee	293,00 €
KU LNA BB 2240 A	Low noise broadband amplifier 225 ... 400 MHz, Gain 20 dB, SMA-female, built-in bias tee	293,00 €
KU LNA BB 3050 A	Low noise broadband amplifier 350 ... 500 MHz, Gain 20 dB, SMA-female, built-in bias tee	293,00 €
KU LNA BB 0515 A-SMA	Low noise broadband amplifier 5 ... 1500 MHz, Gain 19 dB, SMA-female, bias tee optional	293,00 €
KU LNA BB 0515 B-N	Low noise broadband amplifier 5 ... 1500 MHz, Gain 19 dB, N-female, bias tee optional	303,00 €
KU LNA BB 1020 A	Low noise broadband amplifier 1000...2000 MHz, Gain >29 dB, SMA-female, built-in bias tee	293,00 €
KU LNA BB 1522 A	Low noise broadband amplifier 1500...2200 MHz, Gain >27 dB, SMA-female, built-in bias tee	293,00 €
KU LNA BB 2000 LSF-SMA	HEMT preamplifier 1.0...2.8 GHz,NF max.1 dB, Gain typ. 35 dB, SMA-female, built-in bias tee	236,00 €
KU LNA BB 2000 LSF-N	HEMT preamplifier 1.0...2.8 GHz,NF max.1 dB, Gain typ. 35 dB, in N-male / out N-female, built-in bias tee	252,00 €
KU LNA BB 0180 A-SMA	Low noise broadband amplifier 1 ... 7000 MHz, Gain 23 dB, SMA-female, bias tee optional	293,00 €
KU LNA BB 0180 B-N	Low noise broadband amplifier 1 ... 7000 MHz, Gain 23 dB, N-female, bias tee optional	303,00 €
KU LNA BB 2227 A	Low noise broadband amplifier 2200 ... 2700 MHz, Gain > 25 dB, SMA-female, built-in bias tee	293,00 €
KU PA BB 233 BBA	GaAs FET power amplifier 500 ... 2500 MHz, Gain >30 dB, typ. 1 W output, MON	360,00 €
KU PA BB 2025 A	Broadband power amplifier 50 ... 2500 MHz, Gain >35 dB, typ. 2 W output	601,00 €

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

MKU LNA 341 A HEMT	HEMT preamplifier, NF typ. 0.7 dB, Gain typ. 12 dB, input con. SMA-male	166,00 €
MKU LNA 341 B HEMT	HEMT preamplifier, NF typ. 0.7 dB, Gain typ. 12 dB, input con. SMA-female	166,00 €
MKU LNA 342 A HEMT	HEMT preamplifier, NF typ. 0.7 dB, Gain typ. 28 dB, input con. SMA-male	239,00 €
MKU LNA 342 B HEMT	HEMT preamplifier, NF typ. 0.7 dB, Gain typ. 28 dB, input con. SMA-female	239,00 €
KU LNA 3436 A	HEMT preamplifier 3400 - 3600 MHz, NF typ. 0.7 dB, Gain typ. 29 dB, input con. SMA-male	292,00 €
KU LNA 3436 B	HEMT preamplifier 3400 - 3600 MHz, NF typ. 0.7 dB, Gain typ. 29 dB, input con. SMA-female	292,00 €
MKU PA 341 A	GaAs FET power amplifier, in 200 mW / typ. 4 W out, MON	on request
MKU PA 342 XL	GaAs FET power amplifier, in 100 mW / min 12 W out, MON	on request

Amplifiers for the 6 cm-Band 5760 MHz

MKU LNA 571 A HEMT	HEMT preamplifier, NF typ. 0.7 dB, Gain typ. 12 dB, input con. SMA-male	166,00 €
MKU LNA 571 B HEMT	HEMT preamplifier, NF typ. 0.7 dB, Gain typ. 12 dB, input con. SMA-female	166,00 €
MKU LNA 572 A HEMT	HEMT preamplifier, NF typ. 0.7 dB, Gain typ. 25 dB, input con. SMA-male	239,00 €
MKU LNA 572 B HEMT	HEMT preamplifier, NF typ. 0.7 dB, Gain typ. 25 dB, input con. SMA-female	239,00 €
MKU LNA 572 AF HEMT	HEMT preamplifier with filter, NF typ. 0.7 dB, Gain typ. 25 dB, input con. SMA-male	249,00 €
MKU LNA 572 BF HEMT	HEMT preamplifier with filter, NF typ. 0.7 dB, Gain typ. 25 dB, input con. SMA-female	249,00 €
MKU PA 601	GaAs FET power amplifier, in 600 mW / >4 W out, MON	on request
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

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

MKU LNA 101 AS HEMT	HEMT preamplifier, NF typ. 0.8 dB, Gain typ. 12 dB, input con. SMA-male	184,00 €
MKU LNA 101 BS HEMT	HEMT preamplifier, NF typ. 0.8 dB, Gain typ. 12 dB, input con. SMA-female	184,00 €
MKU PA 101 N	GaAs FET power amplifier, typ. 200 mW in, 1 W out, MON	on request
MKU PA 101 H	GaAs FET power amplifier, typ. 230 mW in, 2 W out, MON	on request
MKU LNA 102 A HEMT	HEMT preamplifier, NF typ. 0.8 dB, Gain typ. 22 dB, input con. SMA-male	179,00 €
MKU LNA 102 B HEMT	HEMT preamplifier, NF typ. 0.8 dB, Gain typ. 22 dB, input con. SMA-female	179,00 €
MKU LNA 102 S-EME	HEMT preamplifier, NF typ. 0.7 dB, Gain >23 dB, input R 100, output SMA	239,00 €
MKU LNA 102 S-EME R120	HEMT preamplifier, NF typ. 0.7 dB, Gain >23 dB, input R 120, output SMA	239,00 €
MKU PA 102 AL	GaAs FET power amplifier, 10 mW in, >200 mW out, MON	154,00 €
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, 150 mW in, typ. 5 W out, MON	on request
MKU PA 101 X	GaAs FET power amplifier, 0.8 W 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 241 PAC	GaAs MMIC power amplifier, typ. 50 mW in, 300 mW out, MON	380,00 €
MKU PA 245 PAC3	GaAs MMIC power amplifier, typ. 20 mW in, 1.1 W out, MON	on request
MKU LNA 243 CS2	HEMT amplifier, NF max. 2 dB, Gain >24 dB	268,00 €
MKU PA 243 C	HEMT 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 LNA 245 HP	HEMT power amplifier, NF typ. 2.5 db, saturation output power 80 mW, MON	335,00 €
MKU PA 2403 A	GaAs MMIC power amplifier, 20 mW in, 3 W out, MON	on request
MKU PA 2410 A	GaAs MMIC power amplifier, 20 mW in, 10 W out, MON, output con. SMA female	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	HEMT preamplifier, NF max. 1.2 dB, Gain >26 dB	295,00 €
MKU PA 244 WH	GaAs FET amplifier, 8 mW in, 90 mW out, MON	268,00 €
MKU LNA 245 W	HEMT power amplifier, NF typ. 2.5 dB, Gain >30 dB, output power 80 mW	341,00 €

Amplifiers for the 1.2 cm-band 24...24,2 GHz waveguide - SMA

MKU LNA 243 RX 2	HEMT preamplifier, NF < 1.5 dB, Gain 26 dB	278,00 €
MKU PA 244 TX	GaAs FET amplifier, 8 mW in, 90 mW out, MON	268,00 €
MKU PA 241 PAW	GaAs MMIC power amplifier, 50 mW in, 0.3 W out	380,00 €

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 €
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Microwave Converters

MKU LNC 13 CON 28	Converter, in 1296 - 1300, out 28 - 30 MHz, NF typ. 0.6 dB, Gain > 20 dB	on request
MKU LNC 13 CON 144	Converter, in 1296 - 1300, out 144 - 148 MHz, NF typ. 0.6 dB, Gain > 20 dB	on request
KU LNC 14 CON	RADIO ASTRONOMY Converter, in 1400 MHz, out VHF, NF typ. 0.6 dB, Gain > 20 dB	on request
KU LNC 14 CON 2	RADIO ASTRONOMY Converter, in 1400 MHz, out VHF, NF typ. 0.6 dB Gain 60 dB	on request

KU LNC 15 CON	Converter, in 1550 MHz, out VHF, NF typ. 0.7 dB Gain > 20 dB	on request
KU LNC 17 CON	METEOSAT Converter, in 1695 - 1710 MHz, out 138 - 153 MHz, NF 0.7 dB, Gain > 20 dB	on request
KU LNC 17 CON 2	METEOSAT Converter, in 1695 - 1710 MHz, out 138 - 153 MHz, NF 0.7 dB, Gain 60 dB	on request
MKU LNC 23	ATV Converter, in 2320 - 2450 MHz, out 1500 MHz, NF 0.7 dB, Gain 40 dB	183,00 €
KU LNC 25	ATV Converter, in 2350 - 2550 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 €
KU LNC 25 TM	ATV Converter mounted into water resistant case, in 2350 - 2550 MHz, out 1500 MHz	216,00 €
KU LNC 23-3	ATV Converter, in 2100 - 2600 MHz, out 1500 MHz, NF typ 1 dB, Gain >40 dB	294,00 €
KU LNC 23-3 TM	ATV Converter mounted into water resistant case, in 2100 - 2600 MHz, out 1500 MHz	327,00 €
KU LNC 2227 A PRO	S-Band Converter, aluminium case, water resistant, in 2200 - 2700 MHz, out 367 ... 867 MHz	335,00 €
KU LNC 2227 A PRO TM	S-Band Converter, aluminium case, water resistant, in 2200 - 2700 MHz, out 367 ... 867, tower mount	357,00 €
MKU LNC 23 LINK	Converter, in 2380 MHz, out 110 MHz, for Packet Radio Links, please specify RX frequency	179,00 €
MKU LNC 23 CON2	Converter, in 2320 MHz, out 144 MHz, NF typ. 0.7 dB, Gain typ. 30 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. 0.6 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. 0.6 dB, Gain typ. 30 dB (min. 26 dB)	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 40 dB	199,00 €
MKU LNC 34 TM	Converter mounted into water resistant case, in 3400 - 3475 MHz, NF typ. 0.9 dB, Gain 40 dB	230,00 €
KU LNC 3436 A	Converter, aluminium case, water resistant, in 3400 - 3560 MHz, out 400 - 560 MHz	355,00 €
MKU LNC 57 LINK	Converter 5750 / 435 MHz for Packet Radio Links, Gain typ. 20 dB, please specify RX frequency	259,00 €
MKU LNC 57 LINK opt. 01	Converter 5750 / 435 MHz for Packet Radio Links, Gain typ. 40 dB, please specify RX frequency	284,00 €
MKU LNC 57 CON	Converter 5760 / 432 MHz, NF typ. 1.0 dB, Gain typ. 20 dB	259,00 €
MKU LNC 57 CON opt. 01	Converter 5760 / 432 MHz, NF typ. 1.0 dB, Gain typ. 40 dB	284,00 €
MKU LNC 57-3	ATV-Conv. 5600-5900 / out 1450-1650 MHz ZF, NF max. 1,0 dB, Gain typ.40 dB, IN N-female	252,00 € NEU!
MKU LNC 57-3 TM	Converter mounted into water resistant case, in 5600-5900 MHz, NF max.1,0 dB, Gain dB, N-female	284,00 € NEU!
KU LNC 5659 A	Converter, aluminium case, water resistant, in 5600 - 5900 MHz, out 386,3 - 686,3 MHz	on request
MKU LNC 10 OSCAR	Converter, in 10451 MHz, out 432 MHz, NF typ. 1.2 dB, Gain typ. 20 dB	259,00 €
MKU LNC 10 CON	Converter, in 10368 MHz, out 432 MHz, NF typ. 1.2 dB, Gain typ. 20 dB	259,00 €
MKU LNC 24 A	24 GHz ATV Converter, out 1.2 GHz, NF <2.5 dB, Gain typ. 50 dB	379,00 €
KU LNC BB 2030 B	Converter, in 2020 - 3000 MHz, out 20 - 1000 MHz, NF typ. 1.5 dB, Gain typ. 30 dB	327,00 €
MKU 24 RXO	Converter (RX mixer) 24 GHz for OSCAR 40, out 144 MHz, NF typ. 8 dB	182,00 €
Up Converter		
MKU UP 13 OTX	Up Converter for OSCAR uplink, in 144 MHz, out 1268 MHz, typ. 1 W	307,00 €
MKU UP 13 OTX option 436	Up Converter for OSCAR uplink, in 436 MHz, out 1268 MHz, typ. 1 W	307,00 €
MKU UP 24 OTX	Up Converter for OSCAR uplink, in 144 MHz, out 2446 MHz, min.1 W	366,00 €
MKU UP 34 LTX	Up Converter for Packet Radio Links, in 144/436 MHz, out 3400-3475 MHz, typ. 0.2 W, pls specify freq.	on request
MKU UP 57 OTX	Up Converter for OSCAR uplink, in 144 MHz, out 5668 MHz, typ. 0.2 W	289,00 €
MKU UP 57 LTX	Up Converter for Packet Radio Links, in 144/436 MHz, out 5750 MHz, typ. 0.2 W, pls specify frequency!	on request
MKU UP 10 LTX	Up Converter for Packet Radio Links, in 100 - 500 MHz, out 10 - 10.5 GHz, typ. 0.2 W out	on request
DB 6 NT Microwave Transverter		
MKU 13 G3	23 cm Transverter, NF typ. 0.8 dB, 2.5 W RF out	425,00 € NEW!
MKU 13 G3 28	23 cm Transverter for 28 MHz IF. Ext. TX-filter necessary, NF typ. 0.8 dB, 2.5 W RF out	425,00 € NEW!
MKU 23 G3	13 cm Transverter 2320 MHz / 144 MHz, max. 0.8 dB NF, typ. 1 W RF out	462,00 € NEW!
MKU 34 G3	9 cm Transverter, NF max. 0.9 dB, typ. 400 mW RF out	537,00 € NEW!
MKU 34 G3 432	9 cm Transverter, IF = 432 MHz, NF max. 0.9 dB, typ. 400 mW RF out	537,00 € NEW!
MKU 57 G3	6 cm Transverter, NF typ. 1.0 dB, typ. 250 mW RF out	537,00 € NEW!
MKU 57 G3 432	6 cm Transverter, IF = 432 MHz, NF typ. 1.0 dB, typ. 250 mW RF out	537,00 € NEW!
MKU 10 G3	3 cm Transverter, NF typ. 1.2 dB, typ. 200 mW	537,00 € NEW!
MKU 10 G3 432	3 cm Transverter, IF = 432 MHz, NF typ. 1.2 dB, typ. 200 mW	537,00 € NEW!
MKU 10 G2 Opt.JA/01	3 cm Transverter, NF typ. 1.2 dB, typ. 200 mW RF out, version for JA, for exter.osc. Special price!	395,00 €
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 G2	100,00 €
Transverter System for 70 MHz		
TR 70 H	High Performance 70 MHz Transverter 70-72 MHz, 28-30 MHz IF, 20 Watts RF out	1.120,00 € NEW!
Opt. 04	add. drive gain control on the front panel	19,00 € NEW!
Transverter System for the 2 m-Band		
TR 144 H	High Performance 2 m Transverter 144-146 MHz, 28-30 MHz IF, 25 Watts RF out	1.120,00 €
Opt. 04	add. drive gain control on the front panel	19,00 €
Opt. 05	Intermediate frequency (IF) 14 ... 16 MHz	27,00 €
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	1.350,00 €
	High intercept point converter typ. +40 dBm	
Opt. 02	10...200 µW IF input power	19,00 €
Opt. 04	add. drive gain control on the front panel	19,00 €
Opt. 05	Intermediate frequency (IF) 14 ... 16 MHz	27,00 €
Opt. 06	common IF connector for RX/TX	0,00 €
	For the transverter TR 144 H +40 with opt. 06 (common IF connector) opt. 04 (add. drive gain control on the front panel) is not possible.	
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	1.120,00 €
Opt. 01	2nd oscillator for 435 ... 437 MHz	29,00 €
Opt. 04	add. drive gain control on the front panel	52,00 €
Opt. 04 - add.	add. drive gain control on the front panel - later installation	83,00 €

Transverter System for the 23 cm-Band

TR 1296 H - 144 MHz Opt. 01	High Performance 23 cm Transverter 1296 -1298 MHz, 144 -146 MHz IF, 20 Watts RF out 2nd oscillator for 1268 ... 1270 MHz	1.150,00 € 29,00 €
TR 1296 H - 28 MHz Opt. 01	High Performance 23 cm Transverter 1296-1298 MHz, 28-30 MHz IF, 20 Watts RF out 2nd oscillator for 1268 ... 1270 MHz	1.185,00 € 57,00 €
Opt. 02	10 ... 200 µW IF Input Power	19,00 €
Opt. 04	add. drive gain control on the front panel	52,00 €
Opt. 04 - add.	add. drive gain control on the front panel - later installation	83,00 €
Opt. 06	common IF connector for RX/TX - Opt. 06 (common IF connector) and opt. 04 (add. drive gain on the front panel) are not compatible.	19,00 €

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

Transverter System for 222 MHz

TR 222 H	High Performance 1.25 m Transverter 222 - 224 MHz, 28 - 30 MHz IF, 25 Watts RF out	1.120,00 €
Opt. 03	IF Amplifier 17 dB	19,00 €
Opt. 04	add. drive gain control on the front panel	19,00 €

Accessories for Transverters

TX-cable	TX-cable	5,00 €
RX-cable	RX-cable	5,00 €
IF-cable	IF-cable IC 7800	5,00 €

Frequency Multipliers

MKU XN 34 TX	Active Multiplier 1.1 - 3.4 GHz, 20 mW in, 200 mW out	182,00 €
MKU XN 57 TX	Active Multiplier 1.4 - 5.7 GHz, 10 mW in, 150 mW out	210,00 €
MKU XN 10 TX	Active Multiplier 2.5 - 10 GHz, 10 mW in, 150 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	229,00 €
MKU 13 BAKE opt. 01	BEACON Transmitter 1296.9 MHz, without oscillator, with connector for external OCXO	179,00 €
MKU 23 BAKE	BEACON Transmitter 2320.9 MHz beacon band, typ. 1 W out	300,00 €
MKU 23 BAKE opt. 01	BEACON Transmitter 2320.9 MHz, without oscillator, with connector for external OCXO	229,00 €
MKU 34 BAKE	BEACON Transmitter 3400.9 MHz beacon band, typ. 200 mW out	300,00 €
MKU 34 BAKE opt. 01	BEACON Transmitter 3400.9 MHz, without oscillator, with connector for external OCXO	230,00 €
MKU 57 BAKE	BEACON Transmitter 5760.9 MHz beacon band, typ. 200 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 > 35 mW out	298,00 €
MKU LO 12 PLL	12 GHz Oscillator > 35 mW out, with PLL for external 10 MHz Referenz	349,00 € NEW!
MKU LO 12 opt. 01	12 GHz LO unit >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	230,00 €
MKU LO 15	15 GHz LO unit >20 mW out, without oscillator, with connector for external OCXO	298,00 € NEW!
MKU LO 24	24 GHz Oscillator, 5 mW out	290,00 €
MKU LO 24 opt.01	24 GHz LO unit, 5 mW, without oscillator, with connector for external OCXO	230,00 €
MKU LO 95	9486 MHz Oscillator, 35 mW out for 76 GHz / 144 MHz IF	290,00 €
MKU LO 95 opt.01	9486 MHz LO unit, 5 mW out, without oscillator, with connector for external OCXO	230,00 €
MKU XO 1 PLL	PLL-stabilized Crystal Oscillator, typ. 1 mW out	220,00 € NEW!
MKU XO 2 OSC	Double oscillator module, 120.0 / 120.889 MHz, 1 mW	238,00 €

ATV - Transmitters

MKU ATV 34-2	Transmitter, baseband in - 3,4 GHz out, typ. 200 mW, can be adjusted	227,00 €
MKU ATV 57	Transmitter, baseband in - 5,7 GHz out, typ. 200 mW, can be adjusted	248,00 €
MKU ATV 10 B	Transmitter, baseband in - 10 GHz out, typ. 200mW, 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 €
MKU X2 1224 W	Waveguide output R220 and headsink (beacon), other specification see MKU X2 1224	433,00 €
KU X2 1020 B	Frequency doubler 9 ... 11 GHz in, 18 ... 22 GHz out	687,00 €
KU X2 2040 A	Frequency doubler 20 ... 40 GHz	on request

mm-Band Frequency Multipliers

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

MKU LPF 13-N	Lowpass for the 23 cm Band N - connectors female	45,00 €
MKU LPF 13-SMA	Lowpass for the 23 cm Band SMA - connectors female	42,00 €
MKU LPF 23-N	Lowpass for the 13 cm Band N - connectors female	45,00 €
MKU LPF 23-SMA	Lowpass for the 13 cm Band SMA - connectors female	42,00 €

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	26,00 €

Heat sinks and fans

Type SK 120 - 75	1,25 K/W, 150x75x40 mm	16,00 €
Type SK 150 - 62	high-performance-dissipator 150 x 62 x 75 mm, for blower 60 x 60 mm, 0,21 K/W	27,00 €
Type SK 200 - 80	high-performance-dissipator 200 x 80 x 85 mm, for blower, 80 x 80 mm, 0,13 K/W	52,00 €
Type 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 €
Type SK 200 - 160	high-performance-dissipator 200 x 160 x 85 mm, for 4 x blowers 80 x 80 mm, 0,065 K/W	100,00 €
Type SK 300 - 62	high-performance-dissipator 300 x 62 x 75 mm, for blower, 60 x 60 mm, 0,14 K/W	49,00 €
Blower 60 x 60, 12 V	incl. screen grid	15,00 €
Blower 60 x 60, 24 V	incl. screen grid	15,00 €
Blower 80 x 80, 12 V	incl. screen grid	15,00 €
Blower 80 x 80, 24 V	incl. screen grid	15,00 €

Power supply - closed module style

S 150 W 12	12 V / 12,5 Amp	54,00 €
S 150 W 24	24 - 26 V / 6,5 Amp	54,00 €
SP 150 W 27	27 V / 5,6 Amp	58,00 €
SP 200 W 12	12 V / 16,7 Amp	85,00 €
SP 320 W 12	12 V / 24,0 Amp	126,00 €
SP 320 W 24	24 - 26 V / 12,5 Amp	126,00 €
SP 320 W 27	27 V / 11,7 Amp	126,00 €
SP 500 W 12	12 V / 40 Amp	179,00 €
SP 500 W 24	24 - 26 V / 20,0 Amp	179,00 €
SP 500 W 27	27 V / 18 Amp	209,00 €
RSP 1500 W 27	27 V / 56 Amp	599,00 €

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.

Kuhne electronic GmbH Scheibenacker 3 D-95180 Berg/Oberfr. Germany Phone 09293-800939 Fax 09293-800938
Email: info@kuhne-electronic.de Internet: <http://www.db6nt.de>

Price list PCBs including 19% VAT

June 08

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 W PA 1-stage	-----	20,00 €
06 - PCB 10 GHz 4 W PA 2-stage für Mitsubshi FET's	DUBUS 12.98	20,00 € new
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	8,20 €
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 €

Parts

SMC-connector f. coaxcable 3,2 mm straight		3,70 €
Diode BAT 15-03W		3,00 €
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		13,90 €
Procom waveguide flanges WR 19, 47 GHz		10,00 €
Procom waveguide flanges WR 42, 24 GHz		5,60 €
Case TR144/432, size 80x260x240mm	Extrusion/cover alu, same case as "TR" transverter series	95,00 € NEW!
Stainless steel screws assortment	1620 parts	79,00 € NEW!
Precision crystal heater 40 °C QH40A		13,00 €

Kits

Kit 1,3GHz 13G2	transverter MK2 (all parts you need, description)	262,00 €
Kit 1,3 GHz 13G2-28	transverter MK2 (all parts you need, description) 28 MHzIF addition filter necessary	262,00 €
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 €
100 - Kit 24 GHz HEMT ampl. coaxial vers.	(3 x NE32584 C + 1 PCB + 1 x Drawing/circuit)	40,00 €
101 - Kit 24 GHz HEMT ampl. waveg. vers.	(3 x NE32584 C + 1 PCB + 1 x Drawing/circuit)	40,00 €
102 - Kit 24 GHz MK2 transverter	(1 x PCB + 2 x BAT 15-W3 + 1 pF)	27,00 €
103 - Kit 24 GHz MK3 transverter waveg	(1 x PCB + 2 x BAT 15-W3 + 3 x BAR64-03W + 1 x BFP196)	33,50 €
104 - Kit 24 GHz MK3 transverter coaxial	(1 x PCB + 2 x BAT 15-W3 + 3 x BAR64-03W + 1 x BFP196)	33,50 €

Deliver plus freight costs (to expenditure)

All prices are including legal VAT 19%.

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

Phone: 0049 (0) 92 93 - 800 939

Fax: 0049 (0) 92 93 - 800 938

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Ship to: (if different)

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

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

Address: Address:

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

Country: Country:

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

Fax: Fax:

E-Mail:

Shipping method: Parcel service Mail

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

..... Visa Card Euro / Master Card American Express

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

recommen-
dation

print medium
advertisement

other

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

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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.

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

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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