

Price-list for microwave components

radio amateur list - date 09.2005

All prices are including 16% V.A.T

Amplifier for the 2 m - band 144 - 146 MHz

LNA 144 A PHEMT - preamplifier with bandpassfilter NF max. 0,35 dB, Gain typ. 25 dB, inp. N-male 219,00 €

Amplifier for the 70 cm - band 430 - 440 MHz

LNA 432 A PHEMT - preamplifier with Helical filter, NF max. 0,4 dB, Gain >20 dB, inp. N-male 219,00 €

Amplifier for the 23 cm - band 1250 - 1300 MHz

MKU 131 A HEMT	FET-pre-amplifier NF max: 0,5 dB, Gain: > 17 dB inp. SMA-male	163,00 €
MKU 131 B HEMT	FET-pre-amplifier NF max: 0,5 dB, Gain: > 17dB inp. SMA-female	163,00 €
MKU 131 AH-HEMT	Selective HEMT-preamplifier NF max. 0,4 dB typ. 0,35 dB, Gain: typ. 20 dB	195,00 €
MKU 132 AH-HEMT	Selective HEMT-preamplifier NF max. 0,4 dB typ. 0,35 dB, Gain: typ. 33 dB	245,00 € NEW!
MKU 132 A	Selective HEMT-preamplifier NF typ: 0,7 dB, Gain: > 35 dB	127,00 €
MKU 132 A2	Selective HEMT-preamplifier NF typ: 0,7 dB, Gain: > 35 dB incl. 13 cm notch	127,00 €
MKU 132 A2 TM	Amplifier is mounted in to a waterproof case. NF typ: 0,7 dB, Gain: >35 dB. 13 cm notch	159,00 €
MKU 132 B	Selective HEMT-pre-amplifier NF typ: 0,7 dB, Gain: typ. 15dB	116,00 €
MKU 133 HY2	MOSFET Hybrid-Power-Amplifier; 0,1 W in >30 W out, MON, 12 V	on request
MKU 1360 HY	MOSFET Hybrid-Power-Amplifier, 0,2 W in >60 W out, MON, 12 V	on request
MKU 1301 A	GaAs-Poweramplifier, max. 50 mW in, typ. 1 W out, Gain: typ. 13 dB, 12 V	on request
MKU 1330 A	MOSFET-Power-Amplifier, 1 W in, 30-40 W out, MON, 26 V	on request
MKU 1350 A	MOSFET-Power-Amplifier, 4 W in, 50-60 W out, MON, 26 V	on request
MKU 13100 A	MOSFET-Power-Amplifier, 0,2 W in, 100 - 120 W out, MON, 26 V	on request
MKU 13100 B	MOSFET-Power-Amplifier, 5 W in, 100 - 120 W out, MON, 26 V	on request
MKU 13120 HY	MOSFET Hybrid-Power-Amplifier, 0,4 W in 120 W out, MON, 12 V	on request
MKU 13200 A	MOSFET-Power-Amplifier, 0,5 W in, 200 - 250 W out, inkl. Sequencer + MON, 26 V	on request NEW!
MKU 13200 B	MOSFET-Power-Amplifier, 20 W in, 200 - 250 W out, inkl. Sequencer + MON, 26 V	on request NEW!
MKU 13500 A	MOSFET-Power-Amplifier, 20 W in, 500 W out, inkl. Sequencer + MON, 26 V	on request NEW!

Amplifier for the Radio-Astronomie-Band 1350 - 1450 MHz

MKU 141 AH-HEMT	Selective HEMT-pre-amplifier NF max. 0,4 dB, Gain: >17 dB	195,00 €
MKU 142 AH-HEMT	Selective HEMT-pre-amplifier NF max. 0,4 dB, Gain: >33 dB	245,00 €

Amplifier for the INMARSAT-band 1500 MHz

MKU 152 A Selective HEMT-pre-amplifier NF typ: 0,7 dB, Gain: >35dB 127,00 €

Amplifier for GPS 1575 MHz

KU 1575 / 4 SMA	Super Low Noise GPS amplifier, NF typ: 0,7 dB, Gain: 47 dB, Output 4 SMA female connectors	580,00 €
KU 1575-50	Super Low Noise GPS amplifier, NF typ: 0,5 dB, Gain: 55 dB, Output 1 SMA female connector	345,00 €

Amplifier for the METEOSAT-band 1700 MHz

MKU 172A Selective HEMT-pre-amplifier NF typ: 0,7 dB, Gain: >35 dB 127,00 €

Amplifier for the 13-cm band 2320-2450 MHz, center 2350 MHz (2304 MHz USA)

MKU 232 A2	Selective HEMT-pre-amplifier NF typ: 0,7 dB, Gain: >35 dB incl. 23 cm notch	127,00 €
MKU 232 A2 TM	Amplifier is mounted in to a waterproof case. NF typ: 0,7 dB, Gain: >35 dB. 23 cm notch	159,00 €
MKU 232 B	Selective HEMT-pre-amplifier NF typ: 0,7 dB, Gain: typ. 15 dB	116,00 €
MKU 231 A HEMT	FET-Amplifier, NF max. 0,6dB, Gain typ. 16dB inp. SMA-male	163,00 €
MKU 231 B HEMT	FET-Amplifier, NF max. 0,6dB, Gain typ. 16dB inp. SMA-female	163,00 €
MKU 231 AH-HEMT	Selective HEMT-preamplifier NF typ. 0,4 dB, Gain: typ. 16 dB	195,00 € NEW!
MKU 232 AH-HEMT	Selective HEMT-preamplifier NF typ. 0,5 dB, Gain: typ. 30 dB	245,00 € NEW!
MKU 232 AL	GaAs-power amplifier, in 5 mW / 0,8 ... 1 Watt out, MON	163,00 €
MKU 231 TX	GaAs-power amplifier, in 700 mW / typ. 5 watt out, MON	on request
MKU 231 XL	GaAs-power amplifier, in 1 Watt / typ. 10 watt out, MON	on request
MKU 232 TX	GaAs-power amplifier, in 80 mW / typ. 5 watt out, MON	on request
MKU 233 TX	GaAs-power amplifier, in 10 mW / typ. 5 watt out, MON	on request
MKU 233 XL	GaAs-power amplifier, in 50 mW / typ. 10 watt out, MON	on request
MKU 234 XL	GaAs-power amplifier, in 2 mW / typ. 10 watt out, MON	on request

High power amplifiers for professional use - Please request!

Broadband amplifier

LNA 1018 A	Super low noise broadband amplifier 100...180 MHz, typ. >20 dB, SMA-female, built-in bias tee	285,00 € NEW!
LNA 3050 A	Super low noise broadband amplifier (300) 350...500 MHz, typ. 20 dB, SMA-female, built-in bias tee	285,00 € NEW!
KU 0515 A	Super low noise broadband amplifier 5...1500 MHz, 20 dB Gain, SMA-female, opt. bias tee possible	285,00 € NEW!
KU 0515 B	Super low noise broadband amplifier 5...1500 MHz, 20 dB Gain, N-female, opt. bias tee possible	295,00 € NEW!
LNA 1020 A	Super low noise broadband amplifier 1000...2000 MHz, typ. >29 dB, SMA-female, built-in bias tee	285,00 € NEW!
LNA 1522 A	Super low noise broadband amplifier 1500...2200 MHz, min. 30 dB, SMA-female, built bias tee	285,00 € NEW!

KU 2000 LSF-SMA	GaAs-super low noise amplifier, 1...2,8 GHz, NF max. 1 dB, Gain typ. 35 dB, SMA- female, built-in bias tee	230,00 €
KU 2000 LSF-N	GaAs-super low noise amplifier, 1...2,8 GHz, NF max. 1 dB, Gain typ. 35 dB, Input: N-male, Output: N-female, built-in bias tee	245,00 €
KU 0180 A	Super low noise broadband amplifier 1...7000 MHz, 23 dB Gain, SMA-female, opt. bias tee possible	285,00 €
KU 0180 B	Super low noise broadband amplifier 1...7000 MHz, 23 dB Gain, N-female, opt. bias tee possible	295,00 €
LNA 2227 A	Selective PHEMT-pre-amplifier, 2,2 - 2,7 GHz, 30 dB gain, SMA-female, built-in bias tee	285,00 € NEW!
KU 233 BBA	GaAs-power amplifier, 0,5...2,5 GHz, Gain min. 30 dB, typ. 1 watt out, MON	350,00 €
KU 2025 A	Broadband amplifier, 50 ... 2500 MHz, Gain min. 35 dB, typ. 2 watt out	585,00 € NEW!

Amplifier for the 9 cm-band 3400 MHz (3456 MHz USA)

MKU 341 A HEMT	FET-Amplifier, NF typ. 0.7dB, Gain typ. 12 dB input, SMA-male	163,00 €
MKU 341 B HEMT	FET-Amplifier, NF typ. 0.7dB, Gain typ. 12 dB inp. SMA-female	163,00 €
MKU 342 A	FET-Amplifier, NF typ. 0.7dB, Gain typ. 28 dB input, SMA-male	235,00 € NEW!
MKU 342 B	FET-Amplifier, NF typ. 0.7dB, Gain typ. 28 dB input, SMA-female	235,00 € NEW!
MKU 341 A	GaAs-Power amplifier, in 200 mW / typ. 5 Watt out, MON	on request
MKU 342 XL	GaAs-Power amplifier, in 100 mW / >12 Watt out, MON	on request

Amplifier for the 6 cm-band 5760 MHz

MKU 571 A HEMT	FET-Amplifier, NF typ. 0,7dB, Gain typ. 12dB inp. SMA-male	163,00 €
MKU 571 B HEMT	FET-Amplifier, NF typ. 0,7dB, Gain typ. 12dB inp. SMA-female	163,00 €
MKU 572 A HEMT	FET-Amplifier, NF typ. 0,7dB, Gain typ. 25dB inp. SMA-male	235,00 €
MKU 572 B HEMT	FET-Amplifier, NF typ. 0,7dB, Gain typ. 25dB inp. SMA-female	235,00 €
MKU 572 AF HEMT	FET-Amplifier with filter, NF typ. 0,7dB, Gain typ. 25dB inp. SMA-male	244,00 €
MKU 572 BF HEMT	FET-Amplifier with filter, NF typ. 0,7dB, Gain typ. 25dB inp. SMA-female	244,00 €
MKU 601	GaAs-power amplifier, in typ. 600 mW / > 4 watt out, MON	on request
MKU 602	GaAs-power amplifier, in typ. 100 mW / > 4 watt out, MON	on request
MKU 602 H	GaAs-power amplifier, in typ. 200 mW / > 8 watt out, MON	on request
MKU 602XH	GaAs-power amplifier, in typ. 300 mW / > 15 Watt out, MON	on request

Amplifier for the 3 cm-band 10...10,5 GHz

MKU 101 AS HEMT	FET-amplifier, NF typ. 0,7 dB, Gain typ. 12 dB - input SMA-male	180,00 €
MKU 101 BS HEMT	FET-amplifier, NF typ. 0,7 dB, Gain typ. 12 dB - input SMA-female	180,00 €
MKU 101 N	GaAs-power amplifier, typ. 200 mW in 1 Watt out, MON	on request
MKU 101 H	GaAs-power amplifier, typ. 230 mW in 2 Watt out, MON	on request
MKU 102 A HEMT	FET amplifier, NF typ. 0,9 dB, >22 dB Gain - SMA-male	175,00 €
MKU 102 B HEMT	FET-amplifier, NF typ. 0,9 dB, >22 dB Gain - SMA-female	175,00 €
MKU 102 S EME	HEMT-FET-amplifier, NF typ. 0,7 dB, >23 dB Gain R 100 in / SMA out	235,00 €
MKU 102 S EME - R 120	HEMT-FET-amplifier, NF typ. 0,7 dB, >23 dB Gain R 120 in / SMA out	235,00 €
MKU 102 AL	GaAs-power amplifier, typ. 10 mW in ->200 mW out, MON	151,00 €
MKU 102 C	GaAs-power amplifier, typ. 50 mW in, >1 watt out, MON	on request
MKU 102 X	GaAs-power amplifier, 200 mW in, typ. 5 watt out, MON	on request
MKU 101 X	GaAs-power amplifier, 0,8 watt in, typ. 5 watt out, MON	on request
MKU 102 XL	GaAs-high power amplifier, typ. 0,2 watt in, typ. 10 watt out, MON	on request

Amplifier for the 1,2 cm-band 24...24,25 GHz coaxial connectors - SMA

MKU 241 PAC	GaAs- MMIC- Poweramplifier, typ. 50 mW in 300 mW out. MON	380,00 €
MKU 242 PAC	GaAs- MMIC- Poweramplifier, typ. 150 mW in - 500 mW out. MON	485,00 €
MKU 245 PAC2	GaAs- MMIC- Poweramplifier, typ. 10 mW in - 1,2 Watt out. MON	on request
MKU 243 CS2	HEMT-FET- amplifier, NF 2,0 dB max. , Gain 24 dB min	268,00 €
MKU 243 C	HEMT-FET- amplifier, in 0,1 mW out > 20 mW	217,00 €
MKU 244 CH	GaAs- FET- amplifier, typ. 8 mW in, -> 90 mW out, MON	268,00 €
MKU 245 HP	HEMT-FET- High power amplifier, typ. NF 2,5 dB, P sat. 80 mW out, MON	335,00 €
MKU 2403 A	GaAs- MMIC- Poweramplifier, 20 mW in, 3 W out, MON	on request NEW!
MKU 2410 A	GaAs- MMIC- Poweramplifier, 20 mW in, 10 W out, MON, SMA female out	on request NEW!
MKU 2410 AW	GaAs- MMIC- Poweramplifier, 20 mW in, 10 W out, MON, R220 / WG20 / WR42 out	on request NEW!

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

MKU 243 WS 2	HEMT-FET-amplifier, NF < 1,5 dB, Gain >26 dB	295,00 €
MKU 244 WH	GaAs-FET-amplifier, typ. 8 mW in -> 90 mW out, MON	268,00 €
MKU 245 W	HEMT-FET-amplifier, gain 30 dB, typ. NF 2,5 dB, 80 mW out	341,00 €

Amplifier for the 1,2 cm-band 24...24,2 GHz waveguide - SMA

MKU 243 RX 2	HEMT-FET-pre amplifier, NF < 1,5 dB Gain 26 dB	278,00 €
MKU 244 TX	GaAs-FET-amplifier, 8 mW in > 90 mW out. MON	268,00 €
MKU 241 PAW	GaAs-MMIC-Poweramplifier, 50 mW in -> 0,3 Watt out	380,00 €

Amplifier for the 47 GHz Band

MKU 472 B	47 GHz amplifier, 47088 MHz, NF: max. 5 dB, Gain: min. 27 dB, Output sat. 30 mw	696,00 €
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Microwave converter

MKU 13 CON 28	Converter 1296 - 1300 / 28 - 30 MHz IF, NF typ. 0,6 dB Gain > 20 dB	255,00 €
MKU 13 CON 144	Converter 1296 - 1300 / 144 - 148 MHz IF, NF typ. 0,6 dB Gain > 20 dB	255,00 €
MKU 14 CON	RADIO ASTRONOMIE Converter 1400 / VHF IF, NF typ. 0,6 dB Gain > 20 dB	269,00 €
MKU 14 CON 2	RADIO ASTRONOMIE Converter 1400 / VHF IF, NF typ. 0,6 dB Gain 60 dB	385,00 €
MKU 15 CON	Converter 1550 / VHF IF, NF typ. 0,7 dB Gain > 20 dB	269,00 €
MKU 17 CON	METEOSAT Converter IN 1695 - 1710, Out 138 - 153 MHz, NF typ. 0,6 dB Gain > 20 dB	269,00 €
MKU 17 CON 2	METEOSAT Converter IN 1695 - 1710, Out 138 - 153 MHz, NF: max 0,7 dB, 60 dB Gain	385,00 €
MKU 23 LNC	ATV-Converter 2320-2450 MHz in / 1500 MHz IF out. typ. 0,7 NF / 40 dB gain	178,00 €
MKU 25 LNC	ATV-Converter 2350-2550 MHz in / 1500 MHz IF out. typ. 0,7 NF / 40 dB gain	178,00 €
MKU 23 TM LNC	ATV- Converter mounted in to a waterproof case 2320-2450 MHz in / 1500 MHz IF out	210,00 €
MKU 25 TM LNC	ATV- Converter mounted in to a waterproof case 2350-2550 MHz in / 1500 MHz IF out	210,00 €
MKU 23 LNC3	ATV-Converter 2100-2600 MHz in / 1500 MHz IF out. typ. 1,0 NF / >40 dB gain	286,00 € NEW!
MKU 23 TM LNC3	ATV-Converter mounted in to a waterproof case 2100-2600 MHz in / 1500 MHz IF out	318,00 € NEW!
LNC 2227 A	S-Band-Converter 2,2 ... 2,7 GHz, in 367 ... 867 ZF out	286,00 € NEW!
LNC 2227 A TM	S-Band-Converter mounted in to a waterproof case 2,2 ... 2,7 GHz, in 367 ... 867 ZF out	318,00 € NEW!

LNC 2227 A PRO	S-Band-Converter, aluminium case, waterproof 2,2 ... 2,7 GHz, in 367 ... 867 ZF out	326,00 € NEW!
MKU 23 LINK	Converter 2380 / 110 MHz for PACKET - LINK RX please specify frequency	174,00 €
MKU 23 CON	Converter 2320 / 144 MHz NF typ. 0,7 dB Gain typ. 30 dB, incl. Notch	255,00 €
MKU 24 OSCAR 2	Converter 2400 / 144 MHz NF typ. 0,7 dB Gain typ. 30 dB, incl. Notch	255,00 €
MKU 24 OSCAR option 70	Converter 2400 / 432 MHz NF typ. 0,6 dB Gain min. 26 dB typ. 30 dB	255,00 €
MKU 24 OSCAR 2 opt. 6 m	Converter 2400 / 50 MHz NF typ. 0,7 dB, Gain typ. 30 dB, incl. Notch	255,00 €
MKU 24 TM OSCAR 2	Converter is mounted into a waterproof case 2400/144 MHz NF typ 0,7 Gain typ. 30 dB, Notch	287,00 €
MKU 24 TM OSCAR opt 70	Converter mounted into a waterproof case 2400 / 432 MHz NF typ. 0,6 dB Gain typ. 30 dB	287,00 €
MKU 24 TM OSCAR2 opt 6m	Converter is mounted into a waterproof case 2400/50 MHz NF typ 0,7 Gain typ 30 dB, Notch	287,00 €
MKU 34 LNC	ATV-Converter 3400-3475 MHz in / 1600 MHz IF out. typ. 0,9 NF / 40 dB gain	194,00 €
MKU 34 TM LNC	Converter is mounted in to a waterproof case 3400-3475 MHz. typ. 0,9 NF / 40 dB gain	225,00 €
MKU 57 LINK	Converter 5750 / 435 MHz for PACKET-LINK, typ. 20 dB Gain RX please specify frequency	255,00 €
MKU 57 LINK opt. 01	Converter 5750 / 435 MHz for PACKET-LINK, typ. 40 dB Gain RX please specify frequency	277,00 €
MKU 57 CON	Converter 5760 / 432 MHz, NF typ. 1,0 dB, Gain typ. 20 dB	255,00 €
MKU 57 CON opt. 01	Converter 5760 / 432 MHz, NF typ. 1,0 dB, Gain typ. 40 dB	277,00 €
MKU 57 LNC	ATV-Conv. 5650...5850 / 1,5 GHz IF / NF max. 1,0 dB / gain typ. 50 dB. IN SMA female	230,00 €
MKU 57 LNC2	ATV-Conv. 5650...5850 / 1,5 GHz IF / NF max. 1,0 dB / gain >40 dB. IN N- female (tower)	230,00 €
MKU 57 TM LNC	Converter is mounted in to a waterproof case 5650...5850NF max. 1,0 dB / gain >40 dB.	261,00 €
MKU 10 OSCAR	Converter, 10451 / 432 MHz / NF typ. 1,2 dB / Gain typ. 20 dB	255,00 €
MKU 10 CON	Converter, 10368 / 432 MHz / NF typ. 1,2 dB / Gain typ. 20 dB	255,00 €
MKU 24 A LNC	24 GHz ATV-Converter IF 1,2 GHz NF: < 2,5 dB Gain: typ. 50 dB	379,00 €
KU 2030 A	Converter input 2000,5...3000 MHz / IF 0,5...1000 MHz. NF typ. 2,5 dB. Gain typ 30 dB	255,00 €
MKU 24 RXO	RX Mixer for OSCAR 40, ZF 144 MHz, NF typ 8 dB	178,00 €

Transmitter

MKU 13 OTX	Transmitter for O.S.C.A.R uplink 144 MHz in 1268 MHz out typ. 1 W.	230,00 €
MKU 13 OTX option 436	Transmitter for O.S.C.A.R uplink 436 MHz in 1268 MHz out typ. 1 W.	230,00 €
MKU 24 OTX	Transmitter for O.S.C.A.R uplink 144 MHz in 2446 MHz out >1 W.	356,00 €
MKU 34 LTX	Transmitter for PACKET link 144/432 MHz in, 3400-3475 MHz out, 0,2 W typ. please spec. freq.	on request
MKU 57 OTX	Transmitter for O.S.C.A.R uplink 144 MHz in 5668 MHz out 0,2 W typ.	281,00 €
MKU 57 LTX	Transmitter for PACKET link 144/432 MHz in 5750 MHz 0,2 W typ. please spec. frequency	on request
MKU 10 LTX	Transmitter for PACKET link 100...500 MHz / 10...10,5 GHz, out 0,2 W typ.	on request

DB 6 NT Microwave transverter

MKU 13 G2	23 cm Transverter typ. < 0,8 dB NF, >1,5 watt RF out	381,00 €
MKU 13 G2 28	23 cm Transverter for 28 MHz IF. Ext. TX- Filter necessary. typ. < 0,8 dB NF, >1,5 W RF out	381,00 €
MKU 23 G2	13 cm Transverter 2320 MHz / 144 MHz typ. < 0,8 dB NF, > 1 watt RF out	417,00 €
MKU 23 G2 OSCAR	13 cm Transverter for P3D 2400 MHz / 144 MHz typ. < 0,8 dB NF, > 1 watt RF out	417,00 €
MKU 34 G2	9 cm Transverter typ. 0,9 dB NF, >200 mW RF	489,00 €
MKU 34 G2 432	9 cm Transverter for 432 MHz IF. Typ. 0,9 dB NF, >200 mW RF	407,00 €
MKU 57 G2	6 cm Transverter typ. 1,0 dB NF, >200 mW RF out	489,00 €
MKU 57 G2 432	6 cm Transverter, 432 MHz, typ. 1,0 dB NF, >200 mW RF out	489,00 €
MKU 57 G2 Opt. 01	6 cm Transverter typ. 1,0 dB NF, >200 mW RF out. for external Oscillator / OCXO	458,00 €
MKU 10 G2	3 cm Transverter typ. 1,2 dB NF, typ 200 mW	509,00 €
MKU 10 G2 432	3 cm Transverter, 432 MHz, typ. 1,2 dB NF, typ. 200 mW	509,00 €
MKU 10 G2 Opt. JA	3 cm Transverter typ. 1,2 dB NF, typ 200 mW RF out. Export Version for JAPAN frequency	509,00 €
MKU 10 G2 Opt. 01	3 cm Transverter typ. 1,2 dB NF, typ 200 mW RF out. for external Oscillator / OCXO	484,00 €
MKU 10 G2 Opt.JA/01	3 cm Transverter typ. 1,2 dB NF, typ 200 mW RF out. Export Vers. JAPAN f.extern.Osc.	484,00 €
MKU 24 GA	Transverter 24 GHz, milled aluminium case 12 GHz LO	194,00 €
MKU 24 GC	Transverter 24 GHz, milled aluminium case 12 GHz LO	194,00 €
MKU 47 G	Transverter 47 GHz NF typ. 8 dB DSB (12 GHz LO)	509,00 €
OPTION	„Professional“ milled aluminium case for MKU 13 G2 / 23 G2 / 34 G2 / 57 G2 / 10 G2	100,00 €

Transverter system for the 2 m band

TR 144 H	High Performance 2 m Transverter 144-146 MHz, 28-30 MHz IF, 25 Watt RF out	995,00 € NEW!
Opt. 02	10...200 µW IF input power	18,00 € NEW!
Opt. 04	add. drive gain control on the front panel	18,00 € NEW!
Opt. 05	IF Frequency 14 ... 16 MHz	26,00 € NEW!
Opt. 06	common IF connector for RX/TX	60,00 € NEW!
Opt. +40	High intercept point converter +40 dBm (opt. 06 possible without cost)	300,00 € NEW!
	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 Watt RF out	995,00 € NEW!
Opt. 01	2.Oscillator for 435 ... 437 MHz	28,00 € NEW!
Opt. 02	10...200 µW IF input power	18,00 € NEW!
Opt. 04	add. drive gain control on the front panel	50,00 € NEW!
Opt. 04 - add.	add. drive gain control on the front panel - afterwards assembly	80,00 € NEW!
Opt. 06	common IF connector for RX/TX	60,00 € NEW!

Transverter system for the 23 cm band

TR 1296 H - 144 MHz	High Performance 23 cm Transverter 1296-1298 MHz, 144-146 MHz IF, 20 Watt RF out	1.098,00 € NEW!
Opt. 01	2. Oscillator 1268 ... 1270 MHz	28,00 € NEW!
TR 1296 H - 28 MHz	High Performance 23 cm Transverter 1296-1298 MHz, 28-30 MHz IF, 20 Watt RF out	1.128,00 € NEW!
Opt. 01	2. Oscillator 1268 ... 1270 MHz	55,00 € NEW!
Opt. 02	TX 10 ... 200 µW IF Input Power	18,00 € NEW!
Opt. 04	add. drive gain control on the front panel	50,00 € NEW!
Opt. 04 - add.	add. drive gain control on the front panel - afterwards assembly	80,00 € NEW!
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.	18,00 € NEW!

Transverter system for the 13 cm band

TR 2320 H	High Performance 13 cm Transverter 2320-2322 MHz, 144-146 MHz IF, 15 Watt RF out	1.280,00 € NEW!
Opt. 01	2. Oscillator 2304 ... 2306 MHz	140,00 € NEW!
TR 2320 H - 2304	High Performance 13 cm Transverter 2304-2306 MHz, 144-146 MHz IF, 15 Watt RF	1.280,00 € NEW!
TR 2320 H - 2400	High Performance 13 cm Transverter 2400-2402 MHz, 144-146 MHz IF, 15 Watt RF	1.280,00 € NEW!

Transverter system for 222 MHz

TR 222 H	High Performance 1,25 m Transverter 222-224 MHz, 28-30 MHz IF, 25 Watt RF out	995,00 € NEW!
Opt. 02	10...200 µW IF input power	18,00 € NEW!
Opt. 03	IF Amplifier 17 dB	18,00 € NEW!
Opt. 04	add. drive gain control on the front panel	18,00 € NEW!

Accessories for transverter

TX-cable	TX-cable	4,80 € NEW!
RX-cable	RX-cable	4,80 € NEW!
IF-cable	IF-cable IC 7800	4,80 € NEW!

Frequency multiplier

MKU 34 TX	Active Multiplier 1,1 - 3,4 GHz, 20 mW in, 200 mW out	178,00 €
MKU 57 TX	Active Multiplier 1,4 - 5,7 GHz., 10 mW in, 150 mW out	206,00 €
MKU 10 TX	Active Multiplier 2,5 - 10 GHz in, 10 mW in 150 mW out	206,00 €

L - K-band Oscillator modul (crystal oscillator)

MKU 13 BAKE	BEACON Transmitter 1296,9 MHz beacon band, typ. 0,8 W out	218,00 €
MKU 13 BAKE opt.01	BEACON Transmitter 1296,9 MHz without Osz. connector for ext. OCXO	173,00 €
MKU 23 BAKE	BEACON Transmitter 2320,9 MHz beacon band, typ. 1 W out	288,00 €
MKU 23 BAKE opt.01	BEACON Transmitter 2320,9 MHz without Osz. connector for ext. OCXO	224,00 €
MKU 34 BAKE	BEACON Transmitter 3400,9 MHz beacon band, typ. 200 mW out	288,00 €
MKU 34 BAKE opt.01	BEACON Transmitter 3400,9 MHz without Osz. connector for ext. OCXO	224,00 €
MKU 57 BAKE	BEACON Transmitter 5760,9 MHz beacon band, typ. 200 mW out	332,00 €
MKU 57 BAKE opt.01	BEACON Transmitter 5760,9 MHz without Osz. connector for ext. OCXO	263,00 €
MKU 10 BAKE	BEACON Transmitter 10368,9 MHz beacon band, typ. 200 mW out	332,00 €
MKU 10 BAKE opt.01	BEACON Transmitter 10368,9 MHz without Osc. connector for ext. OCXO	263,00 €
MKU 12 LO	12 GHz Oscillator > 35 mW out	275,00 €
MKU 12 LO opt.01	12 GHz LO unit > 35 mW out. without Osc. connector for ext. OCXO	224,00 €
MKU 24 LO	24 GHz Oscillator 5 mW out	275,00 €
MKU 24 LO opt.01	24 GHz LO unit 5 mW out. without Osc. connector for ext. OCXO	224,00 €
MKU 95 LO	9486 MHz Oscillator 35 mW out for 76 GHz / 144 MHz IF	275,00 €
MKU 95 LO opt.01	9486 MHz LO unit 5 mW out. without Osc. connector for ext. OCXO	224,00 €
MKU 2 OSC	Double-Oscillator modul, 120,0 / 120,889 MHz, 1 mW	232,00 € NEW!

ATV - Transmitter

MKU 34 TV2	Transmitter baseband in- 3,4 GHz out, typ. 200 mW, can be adjusted	221,00 €
MKU 57 TV	Transmitter baseband in- 5,7 GHz out, typ. 200 mW, can be adjusted	242,00 €
MKU 10B-ATV	Transmitter baseband in- 10 GHz out, typ. 200mW, can be adjusted	242,00 €
MKU 10H-ATV	Transmitter baseband in- 10 GHz out, typ. 1 Watt, can be adjusted , MON	383,00 €
MKU 12 ATV	Transmitter baseband in- 12 GHz out, typ. 20 mW, can be adjusted	189,00 €
MKU 12 ATV opt. 01	Oscillator modul without FBAS input	153,00 €
MKU 24 TV	Transmitter baseband in- 24 GHz out, typ. 100 mW, can be adjusted, inkl. direct. coupler +Det.	441,00 €
MKU 24 TV2	Transmitter baseband in- 24 GHz out, typ. 300 mW , can be adjusted, inkl. direct. coupler +Det.	630,00 €

FET - Frequency doubler (f out 24...24,25 GHz)

MKU 1224	Frequency doubler, in 12 GHz 13 dBm, out 24 GHz 19 dBm For application as mm - wave - LO please specify frequency ! In-and output SMA-connectors	407,00 €
MKU 1224 W	how above, however waveguide output R220 and headsink (beacon)	422,00 €
KU 1020 B	Frequency doubler 9 ... 11 GHz in, 18 ... 22 GHz out	670,00 € NEW!
KU 2040 A	Frequency doubler 20 ... 40 GHz	on request NEW!

mm - band Frequency multiplier

MKU 23-47 S	Varactor multiplier f in 23 GHz 100 mW, f out 47 GHz >15 mW	287,00 €
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Low pass filter - detector

MKU 13 LPF - N	Lowpass for the 23 cm Band N - connectors female	44,00 €
MKU 13 LPF - SMA	Lowpass for the 23 cm Band SMA - connectors female	41,00 €
MKU 23 LPF - N	Lowpass for the 13 cm Band N - connectors female	44,00 €
MKU 23 LPF - SMA	Lowpass for the 13 cm Band SMA - connectors female	41,00 €

Laser diode

MKU 660-5	LASER diode red 660 nm 5mW class IIIA inkl. optik	6,60 €
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Bias Tee

MKU 270 BNC	Bias Tee BNC connectors	41,00 €
MKU 270 N	Bias Tee N connectors	46,00 €

Sequence controller

SEQ 1	SMD- Sequence controller modul for maximal 1A DC power	16,50 €
SEQ 2	SMD- Sequence controller modul for maximal 4A DC power	20,00 €
SEQ 3	SMD- Sequence controller modul for maximal 18A DC power	25,00 €

Heat sinks and blower

Type SK 120 - 75	1,25 K/W, 150x75x40 mm	15,50 €
Type SK 150 - 62	high-performance-dissipator 150 x 62 x 75 mm, for blower 60 x 60 mm, 0,21 K/W	26,50 €

Type SK 200 - 80	high-performance-dissipator 200 x 80 x 92 mm, for blower, 80 x 80 mm, 0,13 K/W	50,60 €
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	46,00 €
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	98,00 €
Type SK 300 - 62	high-performance-dissipator 300 x 62 x 75 mm, for blower, 60 x 60 mm, 0,14 K/W	48,00 €
Blower 60 x 60, 12 V	incl. screen grid	14,60 €
Blower 60 x 60, 24 V	incl. screen grid	14,60 €
Blower 80 x 80, 12 V	incl. screen grid	14,60 €
Blower 80 x 80, 24 V	incl. screen grid	14,60 €

Power supply - closed module style

S 150 W 12	12 V / 12,5 Amp	53,00 €
S 150 W 24	24 - 26 V / 6,5 Amp	53,00 €
SP 200 W 12	12 V / 16,7 Amp	95,00 €
SP 300 W 12	12 V / 24,0 Amp	169,00 €
SP 320 W 24	24 - 26 V / 12,5 Amp	153,00 €
SP 500 W 12	12 V / 40 Amp	217,00 €
SP 500 W 24	24 - 26 V / 20,0 Amp	217,00 €

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-examination.

All prices are **including legal VAT 16%**. -deliver plus freight costs. - Errors and alterations reserved.
With the publication of this price list all previous price lists become invalidated.

Kuhne electronic GmbH, Scheibenacker 3, D-95180 Berg/Oberfr., Tel. 0049 (0) 9293-800 939, Fax 0049 (0) 9293-800 938

E-mail: info@kuhne-electronic.de

Internet: <http://www.db6nt.de>

Price list PCB's including 16% VAT

June 2005

PCB broadband amplifier 0,5...2,5 GHz typ. 1 W	UKW Ber. 2.97	25,50 €
PCB 12/24 GHz doubler	DUBUS 1-2.92	9,00 €
PCB 5,7GHz 8 W PA	DUBUS 3.92	25,50 €
PCB 10 GHz 4 W PA 2-stage	DUBUS 4.91	18,80 €
PCB 10 GHz 4 W PA 1-stage	-----	18,80 €
PCB 10 GHz 4 W PA 2-stage für Mitsubshi FET's	DUBUS 12.98	18,80 € new
PCB 10 GHz 8 W PA 2-stage	-----	25,50 €
PCB 10 GHz HEMT-pre stage DK	DUBUS 3.95	18,00 €
PCB 10 GHz beacon	-----	22,00 €
PCB 12 GHz LO MK4	RO4003 through-connection	25,50 €
PCB 24 GHz HEMT ampl. coaxial	DUBUS 4.93	13,20 €
PCB 24 GHz HEMT ampl. waveguide	DUBUS 4.93	13,20 €
PCB 24 GHz PA ampl. coaxial	DUBUS 4.93	13,20 €
PCB 24 GHz PA ampl. waveguide	DUBUS 4.93	13,20 €
PCB 24 GHz HEMT amp. coax. only f.NE32584C!	DUBUS 3.96	18,00 €
PCB 24 GHz HEMT amp. waveguide only for "	DUBUS 3.96	18,00 €
PCB 24 GHz PA Amp. wg in-coax out > beacon	DUBUS 4/page 347	15,00 €
PCB 24 GHz HEPA 4-stage amplifier waveguide	Dorsten 2.97	18,00 €
PCB 24 GHz HEPA 4-stage amplifier coax.	Dorsten 2.97	18,00 €
PCB 24 GHz MK2 transverter	DUBUS 1.93	20,00 €
PCB 24 GHz MK3 Transverter waveguide	DUBUS 2.98	18,00 €
PCB 24 GHz MK3 Transverter coaxial	DUBUS 2.98	18,00 €
PCB 24 GHz LO	-----	22,00 €
PCB 47 GHz mixer	DUBUS 1.94	15,00 €
PCB 47 GHz IF	DUBUS 1.94	5,30 €
PCB 76 GHz mixer x 4	DUBUS 2.92	15,00 €
PCB 76 GHz IF	DUBUS 1.94	5,30 €
PCB 76 GHz mixer x 2	DUBUS 1.94	15,00 €
PCB 25.3/76 GHz tripler	DUBUS 1.94	15,00 €
PCB 120 GHz multiplier by 3	Dorsten 2005	15,00 €
PCB 120 GHz multiplier by 5	Dorsten 2005	15,00 €
PCB 23/47 GHz doubler	DUBUS 4.93	15,00 €
PCB 19/38 GHz doubler	DUBUS 1.94	18,00 €
PCB 120 GHz RX mixer	Dorsten 2005	15,00 €
PCB 145 GHz mixer	DUBUS 2.94	15,00 €
PCB 241 GHz mixer	DUBUS 2.94	15,00 €
PCB Speed control of KR400 Rotor series	UKW Berichte 2/99	7,90 €

Parts

SMC-connector f. coaxcable 3,2 mm straight		3,60 €
Diode BAT 15-03W		3,00 €
Waterproof case for MKU 23 LNC / 34 LNC / 132A2 incl. mastclip (not drilled)		14,90 €
Replacement fuse for TR 144 / 432 H	50 mA quick	4,00 €
Procom waveguide flanges WR 19		7,40 €
Precision crystal heater 40° QH40A		11,80 € NEW!

Kits

Kit 1,3GHz 13G2	transverter MK2 (all parts you need, description)	255,00 €
Kit 1,3 GHz 13G2-28	transverter MK2 (all parts you need, description) 28 MHzIF addition filter necessary	255,00 €
Kit 2,3GHz 23G2	transverter MK2 (all parts you need, description)	281,00 €
Kit 2,3GHz 23G2 OSCAR	2400 MHz transverter MK2 (all parts, description)	281,00 €
Kit 3,4GHz 34G2	transverter MK2 (all parts you need, description)	306,00 €
Kit 5,7GHz 57G2	transverter MK2 (all parts you need, description)	306,00 €
Kit 5,7GHz 57G2, Option for extern. OCXO	transverter MK2 (all parts, description)	291,00 €
Kit 10 GHz 10G2	transverter MK2 (all parts you need, description)	332,00 €
Kit 10 GHz 10G2, Option for extern. OCXO	transverter MK2 (all parts, description)	311,00 €
Kit 24 GHz HEMT ampl. coaxial vers.	(3 x NE32584 C + 1 PCB + 1 x Drawing/circuit)	38,50 €
Kit 24 GHz HEMT ampl. waveg. vers.	(3 x NE32584 C + 1 PCB + 1 x Drawing/circuit)	38,50 €
Kit 24 GHz MK2 transverter	(1 x PCB + 2 x BAT 15-W3 + 1 pF)	26,50 €
Kit 24 GHz MK3 transverter coaxial	(1 x PCB + 2 x BAT 15-W3 + 3 x BAR64-03W + 1 x BFP196)	32,50 €
Kit 24 GHz MK3 transverter waveg	(1 x PCB + 2 x BAT 15-W3 + 3 x BAR64-03W + 1 x BFP196)	32,50 €

Deliver plus freight costs (to expenditure)

All prices are including legal VAT 16%.

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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:

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:

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 16% which is included in our prices.

Outside EC:

Normally our prices are including 16% 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 post money order.

You may charge your order on MasterCard or Visa or American Express. 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 Stadtparkasse 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