

For the by DJ9BV developed LOW NOISE AMPLIFIERS I offer the following parts.
 Complete kits contain all necessary parts with tinplate box and 2 N-panel jack square flanges, unless otherwise stated.
 Optional set of female and male N-connector for an extra charge of EURO 3,30.

70 cm LNA 432 complete kit with box, wall and stripline silvered brass 14y DUBUS 2/93.....	79,80
2 m LNA 144-1302 complete kit DUBUS 1/93	52,00
Special kit 144MHz PCB and all SMD parts.....	13,00
Special kit 432MHz PCB and all SMD parts.....	13,00
PCB 144/432 MHz.....	4,70
Box 74x110x35 mm with wall and stripline drilled silvered brass 14y LNA 432.....	25,00
23 cm HEMT LNA-1, 3 HP complete kit DUBUS 4/93 TECHNIK IV.....	72,00
23 cm HEMT LNA-1, 3 HP 2-stage complete kit	83,50
23 cm HEMT LNA-1, 3 EME complete kit DUBUS 4/93	70,00
23 cm HEMT LNA-1, 3 EME 2-stage complete kit.....	81,50
23 cm HEMT LNA-1, 3 EME Cavity complete kit DUBUS 1/97 TECHNIK V	203,00
Satellite 1,5-1,8 GHz HEMT LNA 1,7 complete kit	72,00
Satellite 1,5-1,8 GHz HEMT LNA 1,7 2-stage complete kit	83,50
PCB	12,70
PCB for Cavity.....	10,60
Aluminium box machined with cover all holes drilled and thread cutting (PCB 71x35mm).....	40,20
23 cm HEMT LNA-1, 3 HP 1-stage with Relais for T/R- switch up to 10 W max, Size 74 x 55 mm comp. Kit.....	93,70
PCB 74 x 55 mm.....	14,20
Aluminium-housing painted grey, waterproof, for outside use	23,70
13 cm HEMT LNA 2,3 NE42484 / MGA86576 DUBUS 1/95 TECHNIK IV	
Complete kit 2-stage with MGA86576.....	84,00
Complete Kit with out MGA86576	72,50
PCB	12,70
9 cm HEMT LNA 3,4 NE42484 / MGA86576 DUBUS 1/95 TECHNIK IV	
Complete kit 2-stage with MGA86576	84,00
Complete kit with out MGA86576	72,50
PCB	12,70
6 cm HEMT LNA 5,7 NE32584 new version DUBUS 1/95 NF=0,7 dB, G=14-15 dB	
Complete kit with SMA with out box	78,50
PCB	14,00
Aluminium box machined all holes drilled and thread cutting (PCB 35 x 47 mm).....	51,00
3cm HEMT LNA 5,7 NE32684 not published NF=0,9-1,0 dB, G=12-13,5 dB	
Complete kit with micro strip SMA with out box.....	75,50
PCB	10,60
Aluminium box machined all holes drilled and thread cutting (PCB 25,5 x 38,1 mm / 1" x 1,5").....	38,00
Bias-bord for HEMT's complete kit DUBUS 1/95.....	22,50
PCB	5,20
23cm PA23-90 HF-PCB DUBUS 4/97 DUBUS 4/97, TECHNIK V.....	15,50
23cm PA23-90 Bias PCB DUBUS 4/97	5,20
23 cm Quadrature Hybrid to combine PA's max. 80W PCB Teflon DUBUS 4/94	10,60
23 cm Quadrature Hybrid to combine PA's max. 100 W PCB hydrocarbon/ceramic.....	11,30
23 cm Quadrature Hybrid to combine PA's max. 300 W PCB hydrocarbon/ceramic.....	26,50
23 cm Quadratur Hybrid Alu box machined 300W Termination 150W 3x SMA or N connector	156,00
23 cm Quadratur Hybrid Alu box machined 1KW 4x N connector	195,00
Abschlusswiderstand 50 Ohm +-5% ohne Flansch zum auflöten auf die Leiterplatte 7x7 mm	4,60
Base mounted Terminations 50 Ohm 5% stripline 10 W DC- 4GHz,SWR<1,35	18,00
Base mounted Terminations 50 Ohm 5% stripline 125 W DC- 4GHz,SWR<1,25	43,00

Base mounted Terminations 50 Ohm 5% stripline 75 W DC- 3GHz,SWR<1,25	20,60
Base mounted Terminations 50 Ohm 5% strip line 150 W DC-3GHz, SWR<1,25	35,00
Air-trimmer M122, 123 1,2-7pF Q>2000/100MHz.....	4,50
Miniature air-trimmer 5700 0,8-6pF Q>10000/100MHz.....	8,00
Miniature air-trimmer 5800 0,35-3,5pF Q>10000/100MHz.....	9,50
Miniature air-trimmer 5801 0,35-3,5pF Q>10000/100MHz.....	9,50
Thin-Trim condenser 0,5-1,3 pF Q>1000/100 MHz grid 3mm.....	3,70
Thin-Trim condenser 0,6-2,0 pF Q>1000/100 MHz grid 3mm.....	4,20
Thin-Trim condenser 1,5-4,0 pF Q>1000/100 MHz grid 3mm.....	4,20
Ceramic tubular-trimmer Tronser 409 4x14, 5mm 0,4-3,5pF Q 5000/200MHz	3,20
Ceramic tubular-trimmer Tronser 715 7,5x12mm 1,1-9pF Q 5000/200MHz	3,20
GIGA-Trimmer Tekelec 727 stripeline mounting grid 3,2mm 0,6-4,5pF Q 3000/250MHz	8,00
Ceramic tubular-trimmer 3x10mm 0,6-10pf.....	0,80
Tuning tool for air-trimmer 2 blades.....	5,50
Tuning tool for thin-trim.....	4,50
Tuning tool with ceramics blade 1,3 mm.....	10,00
Teflon foil trimmer mini 5mm 0,5-4pF	0,60
Teflon foil trimmer SKY-CDY 7,2mm black 0,3-5pF Q>1000 bei 10MHz	
Teflon foil trimmer SKY-CDY 7,2mm orange 0,5-12pF Q>1000 bei 10MHz	1,20
Teflon foil trimmer SKY-CDY 7,2mm green 1-20pF Q>1000 bei 10MHz	1,20
Teflon foil trimmer MURATA 7,2mm 1-6 pF.....	1,20
Chip-plate trimmer (Stettner) 1,6-3pF orange SMD-size 5mm	1,00
Chip-plate trimmer (Stettner) 3,5-10pF white SMD- size 5mm	1,00
Chip-plate trimmer (Stettner) 6,5-6pF blue SMD- size 5mm	1,00
Chip-plate trimmer (Stettner) 5,5-20pF red SMD- size 5mm.....	1,00
Foil trimmer Philips Raster 7,1/5mm grey 1,2-6pF.....	0,35
Foil trimmer Philips Raster 7.1/5mm-10/5mm yellow 2-10pF, green 1,8-22pF, grey 4-40pF, red 5-90pF	0,25
Tronser air trimmer 4/4 plate 11pf pcb mounting lying 11x11mm.....	2,20
Tronser air trimmer 4/4 plate 8pf pcb mounting lying 11x11mm with axle 27mmlong.....	2,20
Doppellochkern U60 2,5x3,6mm (432 MHz).....	1,10
Doppellochkern U17 2,5x3,6mm (145 MHz).....	0,65
Doppellochkern K1 6,2x7,25mm.....	0,70
Toroid R6,3 N30.....	1,00
Ferrit bead 3mm.....	0,15
Ferrit bead SMD 4,8mm	0,60
Wideband transformer 9-1000MHz 50:200 Ohm (SMD) Raster 5x4,5 mm	2,00
Neosid Filters Coil 5022	2,00
Neosid Filters Coil 03310 , 506100 , 5800	2,00
Neosid Filters Coil 514831 21nH, 511631 36nH, 511830 53nH ,	3,20
Neosid Filters Coil (SMD) 560108 0,22µH.....	2,00
Neosid Filters Coil (SMD) 560110 0,33µH.....	2,00
Neosid Helixfilter 2-resonator (SMD) 561504 395-416 MHz.....	4,70
Neosid Helixfilter 2-resonator (SMD) 561500 368-388 MHz.....	4,70
Neosid Helixfilter 2-resonator (SMD) 561511, 432 MHz, 561512, 434 MHz	
Neosid Helixfilter 2-resonator 510241 2,3-2,45 GHz.....	7,00
Neosid Helixfilter 2-resonator 510230 1,1-1,9 GHz.....	7,00
TOKO Helixfilter 2- resonator 5HW-35045A- 365 MHz	
TOKO Helixfilter 2- resonator 5HW 109060A- 1130 MHz.....	7,80
TOKO Helixfilter 2- resonator 5HW-125055F- 1305 MHz.....	7,80
TOKO Helixfilter 2- resonator 252HXPk-2735P 530 MHz.....	8,30
TOKO Helixfilter 2- resonator 252HA-1557F 550 MHz	8,30
TOKO Helixfilter 2- resonator 252HXPk-2733F 600 MHz.....	8,30
TOKO Helixfilter 2- resonator 252HA-1560F 640 MHz	8,30
TOKO Helixfilter 2-3 resonator on request	
PCB material coated with photo lack positive cutting per piece.....	0,50
PTFE-NX9250ST(TLX) 0,79 both sides 35yCu Dielectric constant 2,5 per cmxcm.....	0,20
RT/duroid 5870 0,5 both sides 35yCu Dielectric constant 2,33 per cmxcm	0,30
RT/duroid 5870 0,254 both sides 17,5yCu Dielectric constant 2,33 per cmxcm	0,35

RT/duroid 5870 0,125 both sides 17,5yCu Dielectric constant 2,33 per cmxcm	0,35
RT/duroid 5870 0,125 both sides 35yCu silver plated 14µ with out photo lack per cmxcm.....	0,50
RO 4003 0,813 both sides 35yCu Dielectric constant 3,38 per cmxcm.....	0,20
RO 4003 1,5 both sides 35yCu Dielectric constant 3,38 per cmxcm.....	0,40
ULTRALAM 2000 1,5 both sides 17,5 Cu dielectric constant 2,5 pro cm ²	0,50
FR4 1,5 one side 35yCu 100 x 160 mm.....	2,80
FR4 1,5 both sides 35yCu 100 x 160 mm.....	3,00
FR4 1,0 both sides 35yCu 100 x 160 mm.....	3,00
FR4 0,8 both sides 35yCu 100 x 160 mm.....	3,00
Copper rivets 0,8/1 for holes through 100 pieces	5,50
Copper rivets 0,6/0,8 for holes through 100 pieces	5,50
tungsten carbide twist drills to drill PCB's shaft diameter 1/8" / 3,175mm or 3 mm	
Drill diameter 0,5 , 0,7 , 0,8 , 0,9 , 1,0 , 1,3 , 1,5 , 2,0 , 2,5 , 2,7 , 2,9 mm.....	2,70
tungsten carbide milling cutter for PCB's diameter 3mm.....	3,00
HSS- twist drills diameter 0,5 - 0,9 mm.....	1,10
HSS- twist drills diameter 1,0 – 1,8 mm.....	1,00

Broadband absorber ECOSORB LS24-1/8" SA losses foam self-adhesive , thick 3,2 mm,
 loss 3 GHz = 11 dB / cm, 10 GHz =24 dB / cm (max. 30 x 60 cm) 10x10 cm

SMT-soldering wire L-SN62PBAG2 0,5mm F-SW 32 0,5 250g roll 8,20
 SMT-soldering wire is a newly developed soldering wire for soldering SMD + MELF components. The special characteristic of this wire is its low flux content of only 0.5 %. The low flux content with very good fluxing characteristics practically residue-free soldering. Washing is therefore not necessary in most cases. Very little smoke is produced. The flux core of these solder wires on a resin basis and is not corrosive. The solder contains 62% tin, 36% lead and 2% silver. The 2% silver content prevents silver depletion on silver surfaces and in silver alloys. Due to the low melting point of 179°C, this solder is especially suitable for soldering fragile components. This soldering wire has much less flux than conventional wires!

Box tinplate

37x55x30	1,90	55x55x30	2,20	74x74x30	3,20
37x74x30	2,10	55x74x30	2,50	74x111x30	4,10
37x111x30	2,50	55x111x30	3,10	74x148x30	5,00
37x148x30	3,00	55x148x30	4,00		

FEED-THROUGH filter 2x800pF thread M6x0,5 x6mm with nut.....	2,70
FEED-THROUGH filter 600pF thread M5x0,5 x6mm with nut.....	1,60
FEED-THROUGH filter 1nF thread M5x0,5 6mm long with nut	1,60
FEED-THROUGH filter 4,7nF thread M5x0,5 15mm long with nut.....	1,60
FEED-THROUGH filter 47pF thread M5x0,5 15mm long with nut.....	1,60
FEED-THROUGH filter 4,7nF thread 8-32UNC-2A 4x6mm long with nut	1,80
FEED-THROUGH filter 1nF thread 8-32UNC-2A 4x6mm long with nut	1,80
FEED-THROUGH filter 100pF thread 8-32UNC-2A 4x6mm long with nut	1,80
FEED-THROUGH Capacitors 1 nF 3mm soldering	0,60
Trapeze Capacitors 1 nF or 820pF.....	0,50
Disc Capacitors 1nF	0,40

Coaxial cable double screened

For high frequency applications, only well screened coax cable should be used. This is only possible with double screened or semi rigid cable. Single screened cable like RG58 can with a certain arrangement of input and output cable, cause oscillation of the amplifier.

RG 142BU Teflon 5,5mm with solid core double screened aerial balun	per metre	8,00
RG 400 Teflon same data as RG 142 yet flexible multiple core		
for test cable suitable for wiring in appliances	per metre	8,30
RG 223 double screened	per metre	1,90
RG 214 with 2 N-angle plug.....		5,00
Fitting of above cable (krimpen) per plug		5,00

EZ86 (UT085) semi-rigid-cable 2,18 mm Cut-off Frequency	per metre.....	20,00
RG 402/U (UT141)semi-rigid-cable 3,58 mm Cut-off Frequency 33 GHz	per metre.....	20,00

EZ250 / UT250 semi-rigid-cable 6,35 mm Cut-off Frequency 19 GHz	per metre.....	61,00
EZ90-25 TP semi-rigid-cable 25 Ohm 2,28mm	per metre	13,50
Semi-Flex cable 3,58mm 26GHz with SMA-plug and jack bulkhead 50cm long.....		10,50
Semi-Flex cable 2,18mm 26GHz with SMA-jack bulkhead 50cm long.....		10,50
From these Semiflexcables you can easily make high quality connection-cables up to 26 GHz. The SMA- and N-plugs which are listed below fit here. The handling with this cable is easier than with the semi rigid cable, especially it used inside appliances.		
Coaxial-cable 50 Ohm RG316/U Mil-C-17 2,5 mm PTFE white	per metre.....	1,00
Coaxial-cable 50 Ohm RG188 2,5mm konfektioniert SMA- jack bulkhead / SMA-plug 20cm long		3,00
Coaxial-cable 50 Ohm RG316 konfektioniert SMA-Einlochbuchse/ MCX-Winkelstecker up to 6GHz 20cm long		2,50

For aerial builder

Nylon rivets for isolation mounting of 4mm elements - 2 rivets per element -		
Nylon rivets 10 pieces.....		1,00
Nylon rivets 100 pieces.....		9,70
Nylon rivets 1000 pieces.....		89,50
Aluminium element 4mm diameter 1,0 m long AL/MG5 for 2m, 70cm, 23cm aerial.....		0,70
Aluminium element 2,4mm diameter 1,0 m long AL/MG5 for 13cm aerial.		0,40
This aluminium material is especially durable and is therefore suitable for aerials with non-insulated mounting of the elements, see DUBUS 2/94 DUBUS TECHNIK V		

Silvered copper wire soft, diameter 0,4 mm per mtr.....		0,65
Silvered copper wire soft, diameter 0,5 mm per mtr thick silver.....		0,65
Silvered copper wire soft, diameter 0,8 mm per mtr.....		0,65
Silvered copper wire soft, diameter 1,0 mm per mtr.....		0,80
Silvered copper wire soft, diameter 1,5 mm per mtr.....		1,05
Silvered copper wire soft, diameter 2,0 mm per mtr.....		1,40

MMIC-MONOLITHIC AMPLIFIERS

MSA 1104 / 1105.....		4,50
MSA 0185.....		2,30
MSA 0335 Ceramic Microstrip Package		4,00
MSA 0385.....		3,90
MSA 0520 200 mil BeO Package 23 dBm 1 GHz.....		15,00
MSA 0685 / 0686.....		3,40
MSA 0885.....		5,00
MGA 86576-BLK GaAs-MMIC		11,00
MGA 86563.....		5,20
MGA 85563-BLK.....		5,00
MGA64135		4,80
INA 03184-BLK.....		
INA 10386-BLK.....		6,50
ERA-4 SM		6,00
ERA-1		5,50
ERA-2		5,50
AH1 SMD SOT-89 F=250-3000MHz, NF=2,7dB, G=13,5dB, P1=21dBm		10,00

Prescaler:4 UPG503B 2-9GHz manufacturer NEC hermetic 8-lead ceramic flat packagespecial price 10,00
 Frequnzteiler:8 UPG503B 8-16 GHz manufacturer NEC hermetic 8-lead ceramic flat package.....special price 12,00

Mixer SMD C1H RF/LO 1-1000MHz level 23dBm, IF DC-1000MHz double balanced.....		23,00
Mixer SMD C2 RF/LO 20-1500MHz level 7dBm, IF DC-1500MHz double balanced.....		17,40
Mixer SMD C2M RF/LO 20-1500MHz level 17dBm, IF DC-1500MHz double balanced		20,00
Mixer SMD C2H RF/LO 20-1500MHz level 23dBm, IF DC-1500MHz double balanced.....		23,00
Mixer SMD C3 RF/LO 20-2500MHz level 7dBm, IF 200-600MHz double balanced		17,00
Mixer SMD C3M RF/LO20-2500 level 17dBm IF 20-600MHz double balanced.....		23,00
Mixer SMD C4 LO-level 7dBm 15-2000MHz IF DC-1500MHz double balanced		26,60
Mixer SRA 1 LO-level 7 dBm 0,5-500MHz double balanced		16,40
Mixer SRA 5 LO-level 7 dBm 0,5-1500MHz double balanced		19,50
Mixer SRA 3H LO-level 17 dBm 0,5-200MHz double balanced		12,00
Mixer SRA 173H 17 dBm 5-1200 MHz		15,00

Mixer SRA 2000 LO-level 7 dBm 100-2000MHz double balanced surplus	18,50
Mixer SCM-1 (SMD) LO-level 7 dBm 1-500MHz double balanced	5,90
Mixer LRMS-860 (SMD) LO-level 7 dBm 1-860MHz double balanced.....	10,00
Mixer TUF-860 (SMD) LO-level 7 dBm 2-860MHz double balanced	6,50
Mixer SBY-2S	
HF-Relays for PCB mounting 10W on 1,3GHz SWR 1,3 coil voltage 12V	7,00
Precision voltage regulator REF02CN8.....	9,00
Precision voltage regulator REF02CS SO8 (SMD).....	6,40
Precision voltage regulator REF01CN8.....	9,00
Precision voltage regulator REF01CS SO8 (SMD).....	6,00
References voltage regulator LT1043-1,2C2.....	3,60
Positive adjustable regulator LT1083 35V / 9,5A	16,50
Positive adjustable regulator LT1084 35V / 5A	10,00
Fixed regulator LT1086-12 12V / 1,5A low dropout TO220	
Positive adjustable regulator L200 3-32V / 2A	1,30
Positive adjustable regulator LM 317T 1,5A / 40V	0,70
Positive adjustable regulator LM 317THV TO220 1,5A / 60V	
Positive adjustable regulator LM 317 LZ TO92 0,1A / 40V	0,60
Positive adjustable regulator LM 317TLD SO08 (SMD) 0,1A / 40V	0,80
Fixed regulator UA78L05 TOAC 5V / 100mA	0,50
Fixed regulator UA79L05 AC 5V / 100mA	0,50
Fixed regulator UA78L06 AC 6V / 100mA	0,50
Fixed regulator UA78L08 AC 8V / 100mA	0,50
Fixed regulator UA7812 AC 12V / 1A.....	0,60
Fixed regulator UA78M12 DPAK.....	0,60
Fixed regulator UA7805 AC 5V / 1A.....	0,60
Fixed regulator MC78M12CDT DPAK 12V/500mA.....	0,50
Fixed regulator MC78M1515CDT DPAK 15V/500mA.....	0,50
Transistor BC807-25 SMD	0,25
Transistor BCR400 SMD.....	0,30
Transistor BC848 SMD	0,30
Transistor BFP183 SMD NPN.....	1,30
Transistor BFG193 SMD	1,70
Transistor BFG93A SMD	1,60
Transistor BFG135 SMD	1,30
Transistor BFG591 SMD	1,60
Transistor BFP136 SMD.....	0,30
Transistor BFP193 SMD.....	0,30
Transistor BFP196 SMD.....	0,30
Transistor BFP405 SMD.....	0,30
Transistor BFP450 SMD.....	0,30
Transistor BFR193 SMD	0,65
Transistor BFR92 SMD	0,70
Transistor BFS17P.....	0,50
Transistor BD 136.....	0,50
Transistor GAAS-FET MGF 1302	4,80
Transistor GAAS-FET MGF 1303	5,50
Transistor GAAS-FET MGF 1402	
Transistor GAAS-FET MGF 1404	6,00
Transistor GAAS-FET MGF 1903	6,00
Transistor HEMT FHX35	9,20
Transistor HEMT FHX06.....	6,20
Transistor HEMT NE42484.....	
Transistor HEMT NE32584.....	10,00
Transistor HEMT NE32684.....	9,50
Transistor HEMT NE33284.....	9,50
Transistor HEMT NE33284.....	9,50
Transistor HEMT ATF 13284	5,10
Transistor HEMT ATF 13484	5,10

Transistor HEMT ATF 13736	5,10
Transistor HEMT ATF 36077	6,00
Transistor AT41486	7,50
Diode 1N4007	0,10
Diode 1N4148	0,10
Diode 1N4148 MINIMELF	0,10
Diode LL101 MINIMELF	0,70
Inverter ICL 76660COA SO08 (SMD).....	2,30
Inverter ICL 76660CPA DIP8	1,70
LT1013CN8	6,60
LT 1013S8 SMD.....	6,20
LT1014CN8	12,00
LT1055S8 SMD.....	6,90
LP2951CN	3,40
LP2951CM SMD	3,40
RC4200ANB DIP	13,50
LF398N	3,40
LM339N.....	0,55
ICM7555IPA	0,65
NE592N14	2,20
Schottky-Diode pair HP 5082-2804.....	2,45
Schottky-Diode HP 5082-2835-T25 detector diode	0,80
Schottky-Diode HP HSCH-3486 zero bias detector diode	0,80
Schottky-pair diode BAS125-07 /HSMS-2815#T30 SMD	1,50
Schottky-pair diode BAS125-05 SMD	1,30
PIN-Diode BAR-61 SOT143.....	1,70
PIN-Diode BA479A	0,50
PIN-Diode BA379	0,50
Microwave diodes for mixers + detectors for "Hi-Rel"-use	
Siemens BAT 14-074 12,4 GHz medium barrier SSB NF=5,5dB.....	17,90
Siemens BAT 14-104 18 GHz medium barrier SSB NF=6,0dB.....	20,45
Tekelec DH-313 6-12 GHz packaged medium barrier SSB NF=6,5dB	20,45
Siemens BAT 15-03W SOD323	1,90
SMD Chip-condenser NP0 size 0805 , 0603 1pF.....1nF.....	0,15
SMD Chip-condenser X7R size 0805 , 1206 ,0603 10nF...33nF	0,15
SMD Chip-condenser X7R size 0805 , 1206 0,1µF	0,20
SMD Chip-Tantal condenser all common values	
SMD Chip-choking coil open unsealed all values many different size	0,55
SMD Chip- choking coil sealed all values	0,60
SMD tweezers anti magnetic	9,50
High-Q Chips Tekelec/ATC CHA size 1,4x1,4x1,4mm 50V 0,1pF, 0,5pF, 1pF, 2,2pF, 2,4pF, 2,7pF, 3,9pF, 4,7pF, 10pF, 11pF, 15pF, 33pF, 100pF.....	2,00
High-Q Chips Tekelec/ATC CHB size 3x2,5x2,2mm 300 / 500V 0,5pF, 1pF, 3,3pF, 4,7 pF, 5,6 pF,6,8pF, 10pF; 15pF, 18pF, 22pF , 27pF, 47pF, 120pF, 1nF	2,00
I loan tuning sticks against a deposit of EUR 5 per value. This will be credited to you for your next order. The following values are available: CHB 0.3-6.2 pF 12value; 7.5-36 pF 12 value; 39-300 pF 9 value; 0.47-39 nF 7 value The tuning sticks are series CHB condensers attached to a 10 cm stick for handling, and with 1 mm contacts	
High-Q Chips AVX 0603 +-0,1% 100V following value in pF 0,1; 0,2; 0,3; 0,4; 0,5; 0,6; 0,7; 0,8; 0,9; 1,0; 1,1; 1,2; 1,5; 1,8; 2,0; 2,2; 2,4; 2,7; 3,0; 3,3; 4,7; 5,6; 6,8; 8,2; 9,1; 10; 12; 15; 18; 22;	1,20
High-Q Chips Tekelec 0805 few inductive as normal SMD C's 1 nF	0,65
High-Q Chips Murata 0606 470pF	0,50
SMD Chip-resistor 0603, 0805 and 1206 E24	0,10
Metal laminated resistor size:6,5x2,5 mm 0,6 Watt all value	0,10
SMD Chip-trim potentiometer cermet encapsulated 100R, 220R, 1K.....	0,55
SMD Chip-trim potentiometer cermet capsulated lying with arrested all value	0,85

Trim potentiometer cermet encapsulated.....	0,65
Trim potentiometer cermet 20 turn. 9,5x9,5x5mm stand 5K, 10K, 50K, 100K	1,20
N-panel jack square flange narrow 17,5x17,5 with Teflon 4mm diameterx5mm long	5,10
N-panel jack square flange narrow as SMA 12,7x12,7 flat with Teflon 4x15mm	8,80
N-panel jack square flange narrow as SMA 12,7x12,7 flat with Teflon 4x15mm Suhner	14,50
N-panel jack square flange narrow 25,4x25,4 with Teflon 10mm diameter x6mm long	4,85
N-panel jack square flange narrow 25,4x25,4	3,05
N-panel jack square flange 25,4x25,4.....	3,60
N-panel jack for microwave flange 25,4x25,4 narrow (surplus)	5,10
N-angle panel jack square flange 25,4x25,4	12,50
N-bulkhead jack 5/8-25 UNEF with coupling disc 9 mm.....	4,10
N-bulkhead jack M14x1 Radial for quadrature hybrid	7,15
N-bulkhead jack 5/8 25 UNEF pressurised (for 23cm aerial).....	9,20
N-cable jack bulkhead for RG 402 semi rigid-cable (for13cm aerial).....	7,70
N-panel plug square flange narrow 17,5x17,5 with Teflon 4mm diameterx5mm long	8,45
N-panel plug square flange narrow as SMA 12,7x12,7 flat with Teflon 4x15mm.....	12,50
N-panel plug square flange narrow as SMA 12,7x12,7 flat with Teflon 4x15mm Suhner	25,50
N-panel plug square flange 25,4x25,4 with Teflon 10x12 mm	7,15
N-bulkhead plug Suhner M16x0,75 mm surplus	5,10
N-bulkhead plug Suhner M16x0,75 mm.....	8,20
N-jack -N-jack adapter bulkhead waterproof Suhner	10,50
N-jack -N-jack adapter bulkhead hermetic ceramic Radial used	6,65
N-jack -N-jack adapter flange 25,4x25,4 Suhner	6,40
N-cable jack for RG 213 / 214 crimp Suhner	4,85
N-cable jack square flange for RG 223 / 142 crimp	5,90
N-cable plug for semi-rigid-cable 3,58mm RG 402 / UT141	6,40
N-cable plug for semi-rigid-cable 6,35mm UT250 / EZ250	
N-cable plug for RG213 / 214 crimp	5,60
N-cable plug for RG213 / 214 screw	3,60
N-cable plug for RG223, RG142 crimp.....	5,60
N-cable plug for RG223, RG142 screw.....	5,10
N-cable plug for RG223, RG142 crimp Suhner	7,70
N- cable plug for RG218U screw Suhner	15,00
N- cable plug for Cellflex HCF 1/2" CU2Y	39,40
N- cable plug for Cellflex CF 1/2" CU2Y, LCF 1/2" CU2Y.....	22,75
N- cable plug for Flexwell HF 3/8" CU2Y	20,30
N- cable plug for Flexwell HF 5/8" CU2Y	33,00
N- cable plug for Flexwell HF 7/8" CU2Y	35,00
N- cable jack for Flexwell HF 3/8" CU2Y	20,00
N- cable jack for Flexwell HF 5/8" CU2Y special offer	30,00
N- cable plug for Flexwell HF 3/8" CU2Y used	10,00
N-angle plug both sides cable low loss 5,5mm diameter 1,25 m long.....	4,00
N-angle plug both sides cable low loss 5,5mm diameter Suhner 0,7 m long	3,00
7-16 cable plug for Flexwell HF 3/8" CU2Y special offer	23,00
7-16 panel jack square flange	6,90
BNC-cable plug for RG223, RG142, RG400 crimp	1,85
BNC-cable plug for RG223, RG142, RG400 screw	1,55
BNC-cable plug for RG213, RG214 screw	5,90
BNC-cable angle plug for RG223, RG142, RG400 screw	6,05
BNC-cable plug square flange for RG223, RG142 RG400 crimp	2,55
BNC-cable plug RG223, RG142, RG400 crimp.....	1,80
BNC- panel jack square flange Suhner.....	3,60
TNC-cable plug for RG223, RG142 crimp.....	3,05
TNC-angle cable plug for RG223, RG142 crimp	10,00
TNC-bulkhead jack	3,90
TNC-bulkhead jack long	4,25
SMA-panel jack square flange 4 hole length 14,5mm.....	3,85

SMA-panel jack square flange 4 hole length 14,5mm steel rustproof.....	3,05
SMA- panel jack square flange 4 hole with 15mm length Teflon	7,15
SMA- panel jack square flange 2 hole with 15mm length Teflon rustproof.....	6,65
SMA p. jack sq. fl. 4 h. Micro-Strip Teflon 2,16mm diameter 3,2 length, inside conductor 0,25 mm	6,60
SMA p. jack sq. fl. 4 h. Micro-Strip Teflon 2,16mm diameter 3,2 length, inside conductor 0,25 mm steel rustpr.	6,30
SMA p. plug sq. fl. 4 h. Micro-Strip Teflon 2,16mm diameter 3,2 length, inside conductor 0,25 mm.....	9,00
SMA- panel plug square flange 4 hole	5,90
SMA- panel plug square flange 4 hole with 15mm length Teflon.....	9,70
SMA-bulkhead jack	6,40
SMA-bulkhead jack durchgehendes Gewinde zum einschrauben mit Mutter 1/4-36UNS	5,50
SMA-bulkhead jack durchgehendes Gewinde zum einschrauben mit Mutter 1/4-36UNS Edelstahl.....	5,80
SMA-cable bulkhead jack semi rigid /flex cable 2,18 mm UT085.....	4,70
SMA-cable plug with contact pin for semi rigid / flex cable 3,58mm UT141 RG402.....	2,70
SMA-cable plug without contact pin for semi rigid / flex cable UT141 RG402 suitable up to 33 GHz Suhner.....	2,60
Milling cutter for semi rigid cable inside SMA plug	18,00
SMA-cable angle plug for semi rigid / flex cable 3,58mm UT141 RG402	4,25
SMA-cable angle plug for semi rigid / flex cable 2,18mm RG405	2,65
SMA-cable angle plug for semi rigid cable 6,35 mm UT250 / EZ250.....	17,50
SMA-cable plug for RG174AU-188AU 179BU-187AU (3,2mm) crimp	3,00
SMA-cable plug for RG223, RG142 crimp.....	3,45
SMA-angle cable plug for RG223, RG142 crimp	4,50
SMA-bulkhead jack cable 3,5mm PE double screened 22 cm long SMA-plug	4,60
SMA-bulkhead jack cable RG316U 30 cm long scx-plug.....	3,05
SMC- cable jack for RG174AU-188AU 179BU-187AU (3,2mm) crimp.....	2,55
SMC- cable angle jack for RG174AU-188AU 179BU-187AU (3,2mm) screw	2,55
SMC- bulkhead plug.....	1,65
Adapter BNC-plug / N-jack.....	8,20
Adapter BNC-jack / N-plug	7,15
Adapter SMA-plug / SMA-plug	10,75
Adapter SMA-jack / SMA-jack	7,80
Adapter SMA-plug / N-jack.....	17,65
Adapter SMA-jack / N-plug.....	17,00
Adapter SMA-plug / N- plug	20,00
Adapter SMA-plug / BNC-jack	13,80
Adapter N-jack / 7-16 plug	44,00
Adapter N-plug / 7-16 jack	44,00
Terminations 50 Ohm 1W DC-3GHz SMA-plug	9,45
Terminations 50 Ohm 1W square flange (SMA).....	6,60
precision short circuit SMA	3,30
Insulator 1,6-2,4 GHz, insulation >23 dB, loss< 0,4dB, VSWR<1,15 connectors SMA-jack 50x50x21mm.....	23,00

For the Power meter developed by DJ9BV, I supply the following parts!

Special kit:

PCB, 2 rotary switch SBL11, 3 switch PCB mounting, mains transformer, 2 IC TL084 CN, IC LTC1044CN8 / TC7660PA, IC RC4200ANB, IC 78L05 +79L05, LED HLMP4700, BD136	121,00
Complete kit :Contains all above items and all R's, C's and IC-sockets.....	179,00
PCB	23,50
Rotary switch SBL11-134 3x4.....	32,75
Rotary switch SBL11-134 4x3.....	35,30
Switch PCB mounting.....	4,00
1 pair diode heads with BNC-plug for directional coupler	25,50
Aluminium-housing for directional coupler painted grey.....	17,20
measuring instrument flush mounting with scale 90° not available.....	

For the noise figure meter developed by DJ9BV, I supply the following components.

PANFI analog	
Kit with all necessary parts, without rotary switch	99,00
PCB	23,50
Component Kit, contains all necessary semi-conductors and IC's	41,50
PANFI detector	
Kit with all necessary parts	53,70
PCB	5,50
Component Kit, contains all necessary semi-conductors, IC's and coil's	30,20
PANFI IF	
Kit with all necessary parts	79,50
PCB	6,50
Component Kit, contains all necessary semi-conductors, IC's and coil's	45,00
Measuring instrument flush mounting (surplus) with scale	40,00
rotary switch SBL11 6x4 PCB mounting	
rotary switch 6x4 must be wired	
Helipot 20k 10 turn	18,20
Helipot 10k 10 turn	18,20
Analog-knob arrested for helipot 6.3 axle	10,00
Knob for helipot 6,3 axle (low cost)	1,65
LED screw mounting, red or green	1,00
Koaxial cable set 4 pieces RG223 crimp	45,00
Broadband noise source Kit with all parts with ALU-box, NC305BL and connectors	150,85
Broadband noise source PCB	9,45
Broadband noise source ALU-box machined all holes drilled and thread cutting	37,30
Noise-diode NC305BL	86,90
Attenuator 20 + 6 dB SMA 18 GHz	81,80
Wired and tested LNA's by DJ9BV	
2 m / 144 MHz	111,00
70 cm 432 MHz	127,00
23 cm – 9 cm / 1,3- 3,4 GHz machined aluminium box	164,00
23 cm / 1,3 GHz cavity machined aluminium box	270,00
6 cm / 5,7 GHz machined aluminium box	180,00
3 cm / 10 GHz machined aluminium box	165,00
Mail and shipping EU for PCB's only	4,00
Mail and shipping EU kit's	7,50
Mail and shipping overseas by airmail	15,00
Mail and shipping overseas by airmail for PANFI with measuring instrument	18,00
Mail and shipping Aluminium elements (1m long) EU	16,00

Please transfer the money with INTERNATIONAL-POSTAL-MONEY-ORDER (to accept all costs!) to my home address.

The delivery will be effected immediately after payment.

I could also accept cheques drawn on a German bank.

I can't accept any credit-card.

No other terms will be accepted!

The description and assembling instructions for the instruments and components can be found in the book -DUBUS TECHNIK IV-V, which can be ordered from DUBUS-Verlag, Grützmühlenweg 23, D-22339 Hamburg.

Components from *miCom* .

Low Noise Amplifier L432Q for the 70cm Band :Gain >20dB, Nf <0,4dB, IP3>31dBm	217,50
Low Noise Amplifier L145Q for the 2m Band :Gain >26db Nf <0,3db, IP3>26dBm	217,50
Data sheets on request	

Prices in EURO