

EMCC DR. RAŠEK
 MOGGAST . D-91320 EBERMANNSTADT

Rg/g-X950295AKC

1998-07-28

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x LEFT: INSTRUMENTS USED (x RIGHT: for internal purposes only)

LIST OF TEST INSTRUMENTS (LOTIN)

I	NARROW BAND GENERATORS 1-5, Sweepers, Oscillators & Power Oscillators, Multipliers
II	WIDE BAND INTERFERENCE GENERATORS , LEMP, NEMP, Pulse, HIRF
III	RECEIVERS 1-2, Audio Analyzing Systems
	RECEIVERS 3, MEB-Receivers
	RECEIVERS 4, Schwarzbeck, Ailtech, R & S Receivers
	RECEIVERS 5-6, Mixers, Diplexers
	RECEIVERS 7-8, Spectrum Analyzers
	RECEIVERS 9, Radio Communication Analyzers
	RECEIVERS 10, Radio & TV
	RECEIVERS 11, Interference Monitors & Recorders
IV	ANTENNAS 1-9
	ANTENNAS 10-11, Sniffers & Sensors
	ANTENNAS 20, Tripods, Masts, Ground Planes
V	EMI/RFI TEST INSTRUMENTS 1, Probes, LISNs, C/D Networks
	EMI/RFI TEST INSTRUMENTS 2, LISNs, ISDN, Feed Bridges
	EMI/RFI TEST INSTRUMENTS 3, Infrastructure
	EMI/RFI TEST INSTRUMENTS 4, Jigs, Dummies, Current Probes
	EMI/RFI TEST INSTRUMENTS 5, Current Probes, Anechoic Material
	EMI/RFI TEST INSTRUMENTS 6, Filters & Capacitors
VI	AMPLIFIERS, HEADPHONES, SPEAKERS
VII	GENERAL PURPOSE TEST INSTRUMENTS 1-3, Calibrators, Standards, Scopes, Multimeters, Probes, Meters
	GENERAL PURPOSE TEST INSTRUMENTS 4, Gaussmeters, Frequency Meters, RLCG Meters, Power Analyzers
	GENERAL PURPOSE TEST INSTRUMENTS 5, Other Meters & Testers
	GENERAL PURPOSE TEST INSTRUMENTS 6, Temperature Testers, Resistors/LoadsLF
	GENERAL PURPOSE TEST INSTRUMENTS 7-8, Power Supplies, Voltage Regulators, Transformers, Current Sources
	GENERAL PURPOSE TEST INSTRUMENTS 9, Batteries, Chargers, Cameras and Projectors
	GENERAL PURPOSE TEST INSTRUMENTS 10, Video Systems, Audio Systems, Electronic Cameras, Infrared Remote Controls
	GENERAL PURPOSE TEST INSTRUMENTS 11, Extension Cables/Internat.PWR Adapters
VIII	SMALL PARTS 1, 50 Ohms Standard Adapters and Devices, BNC, TNC, SMA, K, 7/16
	SMALL PARTS 2, 50 Ohm, N Devices
	SMALL PARTS 3-4, Internorm 50 Ohm Adapters
	SMALL PARTS 5, 75 Ohm Adapters, General Radio
	SMALL PARTS 6, Standard Adapters and Devices, not 50 Ohms
	SMALL PARTS 7, BNC-4mm Adapters
	SMALL PARTS 8, Special Adapters
IX	RF TEST INSTRUMENTS 1, RF-Voltmeters, RF Impedance Meters,
	RF TEST INSTRUMENTS 2, Power Meters, SWR Meters, Noise Figure Meters
	RF TEST INSTRUMENTS 3, Frequency Meters, Counters, Frequency Standards
	RF TEST INSTRUMENTS 4, 5 Filters
	RF TEST INSTRUMENTS 6-9 Network Analyzers and General Radio Systems
	RF TEST INSTRUMENTS 10-15 Terminations, Dummies, Coax Attenuators and Dividers
	RF TEST INSTRUMENTS 16 Coax Detectors, Coax Directional Couplers, Isolators, Circulators
	RF TEST INSTRUMENTS 19, Line Sections
X	RF CABLES 1-5, BNC Cables 50, 75 and 93 Ohms, N-,GR-,TNC-,C-,SMA,K, -2.4 mm-Cables
	CABLES 6, Internorm Cables, Twinax Cables
	CABLES 7, DATA Cables
XI	TOOLS & MACHINERY, TRANSIT CASES AND CONTAINERS 1-5
XII	WAVEGUIDE A-J,SURVEY: Adapters and Transitions, Attenuators, Directional Couplers,
	Detectors, Terminations & Samplers, Stands, Isolators & Circulators
	WAVEGUIDE 1, Components L, 2 Components S, 3 Components G
	WAVEGUIDE 4, Components C, 5 Components J, 6-8 Components H
	WAVEGUIDE 9,10, Components X, 11 Components M, 12-13 Components P
	WAVEGUIDE 14, Components N, 15-16 Components K, 17-18 Components R
	WAVEGUIDE 19,20, Components Millimeter
XIII	EDP, Computers & Peripherals, Software, Office Machines
XIV	SAFETY TESTERS

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III-4a

RECEIVERS 4a

Instrument	Manufacturer	Type	Serial #	Data	Specifications	Costs/DM
EMI/RFI Test Receiver	Rohde&Schwarz	ESS	825132/015	III-4	5 Hz...1000 MHz/-48...+137 dBuV 100 V/120 V/220 V/240 VAC 47...420 Hz, 11...33 VDC	121 000B
EMI/RFI Test Receiver	Rohde&Schwarz	ESS	832808/004	III-4	as above	121 000B
EMI/RFI Test Receiver	Rohde&Schwarz	ESS	843513/012	III-4	as above	121 000B
Analyzer Display Unit	Rohde&Schwarz	ESAI-D	833771/008	III-4	20Hz...26.5GHz, TG 100Hz...5GHz -38...137 dBuV	220 013X
Analyzer RF-Unit	Rohde&Schwarz	ESMI-RF	833827/002	III-4	20Hz...26.5GHz, TG 100Hz...5GHz -38...137 dBuV	
Tracking Generator	Rohde&Schwarz	ESMI-B1	832504/005	III-4	TG FOR ESMI 5...26GHz -75...0dBm	44 000
EMV Software f. EMI-Receiver ESMI	Uni Hannover	Version 3.05		III-4	EMI-Software, Emissions+Susceptibility, Support: SMX, SMG, NAP, URV 5, ESMI	5 000
Harmonic Mixer Add-On	Rohde&Schwarz	FS-Z30	1048.0020.02	III-4		3 480
Harmonic Mixer Add-On	Rohde&Schwarz	FS-Z40	1048.0420.02	III-4	26.5...40 GHz	5 120
Harmonic Mixer Add-On	Rohde&Schwarz	FS-Z60	1048.0620.02	III-4	40...60 GHz	7 080
Harmonic Mixer Add-On	Rohde&Schwarz	FS-Z75	1048.0720.02	III-4	50...75 GHz	8 020
Harmonic Mixer Add-On	Rohde&Schwarz	FS-Z110	1048.1110.02	III-4	75...110 GHz	8 750
IEC-Bus Interface GPIB PCII/II A	National Instruments	GPIB PCII/II A	AWSWB00W	III-4	IEEE 488 2,400 kbytes/sec,Driver Software DOS+WIN	1 140
IEC-Bus Interface GPIB PCII/II A	National Instruments	GPIB PCII/II A	BBBKRS	III-4	IEEE 488 2,400 kbytes/sec,Driver Software DOS+WIN	1 140
IEC-Bus Interface GPIB PCII/II A	National Instruments	GPIB PCII/II A	DDD7EC	III-4	IEEE 488 2,400 kbytes/sec,Driver Software DOS+WIN	1 140
IEC-Bus Interface GPIB PCII/II A	National Instruments	GPIB PCII/II A	A047B3	III-4	IEEE 488 2,400 kbytes/sec,Driver Software DOS+WIN	1 140
IEC-Bus Interface GPIB PCII/II A	National Instruments	GPIB PCII/II A	A04A03	III-4	IEEE 488 2,400 kbytes/sec,Driver Software DOS+WIN	1 140
IEC-Bus Interface GPIB PCMCIA	National Instruments	GPIB PCMCIA	182361D	III-4	IEEE 488 2,400 kBytes/sec,Driver Software WIN NT+95	1 618

S = 670 163

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III-4b

RECEIVERS 4b

Instrument	Manufacturer	Type	Serial #	Data	Specifications	Costs/DM
VLF EMI/RFI Test Receiver	Schwarzbeck	LSME 1530A	1530266	III-3	10 kHz...150 kHz/10kg/48x20x22	13 731
Power Supply Cable	Schwarzbeck	Std.	001	III-3	Schuko/EURO	100
Battery Cable	Schwarzbeck	Std.	001	III-3	DIODE	100
Battery 3 Ah/24 V	Schwarzbeck	BG2	001	III-3	24 VDC/3A	1 640B
Charger	Schwarzbeck	LG2	001	III-3	110...230VAC/24VDC	760
EMI/RFI Test Receiver	Ailtech/Singer	NM17/27	0372-9053	III-4	10kHz...32MHz, -40...+120dBuV, m = 27 kg	8
	-Stoddart				Battery, Phono Jack 6/mm/f	96 030
Power Supply Cable	Std.					20
Head Phones w. Cable 1.5 m	AVID/Singer-Std.	LT-730/10796-1	001	VI-2	1.5m, Phono 6mm/m, 600ohm	320
EMI/RFI Test Receiver	Rohde&Schwarz	ESH 2	879342/042	III-4	9kHz...30MHz/-30...+137dBuV	46 373
Front+Back Cover	Rohde&Schwarz	ES	001	III-4	Black rubber	170
EMI/RFI Test Receiver	Rohde&Schwarz	ESV	880455/004	III-4	20MHz...1GHz/-8...+137dBuV	63 120
Battery Unit	Rohde&Schwarz	ESH 2	001	III-4	Battery Housing	240
Front+Back Cover	Rohde&Schwarz	ES	002	III-4	Black rubber	170
EMI/RFI Test Receiver	Rohde&Schwarz	ESV	893271/006	III-4	20MHz...1GHz/-8...+137dBuV	63 120
Battery Unit	Rohde&Schwarz	ESH 2	002	III-4	Battery Housing	240
Front+Back Cover	Rohde&Schwarz	ES	003	III-4	Black rubber	170
EMI/RFI Test Receiver	Rohde&Schwarz	ESV	881117/047	III-4	20MHz...1GHz/-8...+137dBuV	63 120
Battery Unit	Rohde&Schwarz	ESH 2	003	III-4	Battery Housing	240
Front+Back Cover	Rohde&Schwarz	ES	004	III-4	Black rubber	170
EMI/RFI Test Receiver	Stoddart	NM-52A	67AF42	III-4	375 MHz...1 GHz	72 500
UHF Test Receiver	Rohde&Schwarz	USVU-BN1524 EF433/5/73		III-4	0.9 GHz...2.7 GHz	48 600
EMI/RFI Test Receiver	Singer	NM-65T	0199-06035	III-4	1 GHz...10 GHz	99 960B

S = 570 894

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IV-5

ANTENNAS 5

Instrument	Manufacturer	Type	Serial #	Data	Specifications	Costs/DM
E-Field Antenna	IFI	EFG 2	067	IV-5	10 kHz...220 MHz, 1 kW	12 950
500 W Termination	Bird Termaline	82 A	4065	IV-5	QC-Nf/50ohms,500 W,DC...3.5GHz	2 100
N-Cable N/50	Telemeter	RG 142B/U	002	IV-5	1.5 mV/50 ohms/Nm/Nm	80
Quasi-Static-Field-Antenna	EMCC DR. RASEK	SFA 150	1194	IV-5	2 kV, Parallel Plate 1.5 m x 1.5 m * according to FDA-Standard	1 800
Parallel Stripline, 800 mm	EMCC DR.RASEK	150	001	IV-5	2.70x0.60x0.80(m)Parallel Plate,150 ohms,DIN 45305 T.302	7 000
Coax Cable N/Spinner	EMCC/Kabelmetal	RG 213/U	001	IV-5	2.5m/Nm Spinner 6/16 m 90°,2 ferrites	200
Calibration Plate Antenna (w. R & S,URV 5-Z7)	EMCC DR. RASEK	CPA 01	001	IV-5	Aluminium Plate 480 x 310,10mm,152 pF	300
Stripline, 150mm	EMCC DR.RASEK	CAR DIN 40839 T.4	001	IV-5	50 ohms	6 800
Stripline, 300mm	EMCC DR.RASEK	MIL	001	IV-5	50 ohms	7 600
Stripline, 350 mm	EMCC DR. RASEK	EFA	001	IV-5	100 ohms/30 kV	5 300
TEM Cell	Deuta Meßtechnik		001	IV-5	DIN 40839-3, 400 MHz, 2 m x 1 m x 0.6 m EUT: h _{max} = 0.1 m	30 000
Wideband Dipole	Rohde&Schwarz	UHF-Z1	881914/33	IV-5	20...80 MHz, Nf	4 047
VHF Short Dipole CISPR	Schwarzbeck	VHAA 9110	001	IV-5	25...80MHz,5W,G=1.5/1.76dB/Nf,2 rods	1 646
Dipole Set in Case						
VHF/UHF Precision Tuned Dipoles	AH Systems	TDS-200/535-2	191	IV-5	25...1000 MHz, 4 baluns+ telescop. rod pairs, 20 W, 1.6:1	4 900
VHF/UHF Precision Tuned Dipoles	AH Systems	TDS-200/535-2	192	IV-5	25...1000 MHz, 4 baluns+ telescop. rod pairs, 20 W, 1.6:1	4 900
VHF Precision Test Dipole	Schwarzbeck	VHAP 10 dB	237	IV-5	30...300 MHz/10 dB/Nf, 2 x 2 telescop.rods	2 200
VHF Precision Test Dipole	Schwarzbeck	VHAP 10 dB	238	IV-5	30...300 MHz/10 dB/Nf, 2 x 2 telescop.rods	2 200
VHF Test Dipole RX	Schwarzbeck	VHA 9103	001	IV-5	30...300 MHz/Nf, 2x2 telescop.rods	1 095
VHF Test Dipole RX	Schwarzbeck	VHA 9103	002	IV-5	30...300 MHz/Nf, 2x2 telescop.rods	1 095
VHF Test Dipole,XT50(100)W	Schwarzbeck	VHBA 9123	001	IV-5	25...300 MHz/Nf,50(100)W	2 800
VHF Groundplane-Antenna	EMCC	GPA50	5197	IV-5	106...137 MHz, 156...162 MHz 450...470 MHz, Z=50ohms, with adjustable Dipoles, acc. to EN 60945	590
VHF Double-Cone Ant.	Eaton-Ailtech	94455-1	1081	IV-5	20...200 MHz/Nf, 400W	5 512
VHF Double-Cone Ant.,400W	Singer	94 455-1	001	IV-5	20...200 MHz/Nf, 400 W	8 401
VHF Double-Cone Ant.,bar	Schwarzbeck	BBA 9106	001	IV-5	25...300 MHz/Nf,with bar	570
VHF Double-Cone Ant.,bar	Schwarzbeck	BBA 9106	002	IV-5	25...300 MHz/Nf,with bar	570
VHF Double-Cone Ant.,bar	Schwarzbeck	BBA 9106	003	IV-5	25...300 MHz/Nf,with bar	570
Biconilog. Antenna	EMCO	3143	9409-1059	IV-5	26 MHz...1.05 GHz, Nf, 1 kW, w. Rod	6 700
Biconilog. Antenna	EMCO	3143	9604-1269	IV-5a	26 MHz...1.05 GHz, Nf, 1 kW	5 360
Biconilog. Antenna	EMCO	3143	9608-1316	IV-5	26 MHz...1.05 GHz, Nf, 1 kW, with 30 m Cal.	5 360
Biconilog. Antenna	EMCO	3142	9601-1002	IV-5	30...2000 MHz, 1 kW, Nf	6 900
UHF Log.Per Antenna	MEB	LPA 1	001	IV-5	80 MHz...1 GHz, 50 ohms,7/16 f conn, 1kW	3 310
Case	MEB	GK 12	001	IV-5	Timber	677
Antenna Cable	MEB	LE 60	001	IV-5	10m,50 ohms, 7/16m, Nm	188
UHF Log.Per Antenna	MEB	LPA 1	002	IV-5	80 MHz...1 GHz, 50 ohms,7/16 f conn, 1kW	3 310
Case	MEB	GK 12	002	IV-5	Timber	677
Adapter 3/7-7/16f to Nm	MEB	50-mz1	001	VIII-3	3/7-7/16f to Nm	220
UHF Log.Per.Ant.	Rohde&Schwarz	HL 023A1	577 8017	IV-5	80...1300 MHz,Nf	6 768
UHF-Log.Per.Ant.,Receive	EMCO	3147	9104-1042	IV-5	200...5000MHz,Nf,80W	7 200
Tuned Dipole 0.3-1 GHz	Stoddart Aircr.	AI-255/URM-17	001	IV-5	300 MHz...1000 MHz/Nf, 3 pairs dipoles, fixture	4 200
UHF Precision Test Dipole	Schwarzbeck	UHAP 10 dB	000	IV-5	300...1000 MHz/10 dB/Nf	2 180
UHF Precision Test Dipole	Schwarzbeck	UHAP 10 dB	000	IV-5	300...1000 MHz/10 dB/Nf	2 180
UHF Double-Cone Ant.	MEB	DP3	001	IV-5	300MHz...1GHz,50ohms,7/16 f conn	1 500
UHF Test Dipole	Schwarzbeck	UHA 9105	001	IV-5	300MHz...1GHz/Nf,2x telescop. rods	1 249
UHF Test Dipole	Schwarzbeck/CAR	UHA 9105	002	IV-5	300MHz...1GHz/Nf,2x telescop. rods	1 249
UHF Log.Per.Ant.,Transc.	Schwarzbeck	UHALP 9107	242	IV-5	300MHz...1GHz,Nf,Transceive 50 W	1 749
UHF Log.Per.Ant.,Transc.	Schwarzbeck	UHALP 9107	411	IV-5	300MHz...1GHz,Nf,Transceive 50 W	1 749
UHF Log.Per.Ant.,Transc.	Schwarzbeck/CAR	UHALP 9107	539	IV-5	300MHz...1GHz,Nf,Transceive 50 W	1 749
UHF-Log.Per.Ant.,Receiver	Schwarzbeck	UHALP 9107	930	IV-5	300MHz...1GHz,Nf,Receive only,0.5W	1 749
MHz-Ruler (Scale)	Eaton-Ailtech	DM105AT3004317	001	IV-5	400 MHz...1 GHz	300
MHz-Ruler (Measuring Tape)	Eaton-Ailtech	DM105 AT1/AT2	001	IV-5	28 MHz...400 MHz	520

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IV-7

ANTENNAS 7 > 1 GHz, HORN ANTENNAS

Instrument	Manufacturer	Type	Serial #	Data	Specifications	Costs/DM
Double Ridged Guide Ant.	ELECTRO METRICS	RGA-30	2485	IV-7	200MHz...2GHz,500W,Nf/50ohms, 3.5...9dB	10 860
Con Log. Spir. Antenna	EMCO	3103	2181	IV-6	0.1...1 GHz, 50 ohms, SWR 2.5, 150 W	6 217
Con Log. Spir. Antenna	EMCO	3102	8912-2778	IV-6	1.0...10GHz, 50 ohms, SWR 2.0, 50 W	3 879
Standard Gain Horn Ant.	SciAt/TU	12-0.4	86	IV-7	0.35...0.53GHz,500W,15.5dB, WR770/CPR770	22 500
Waveg./Coax Adapter	SciAt/TU	11-0.4	67	XII-1A	0.35...0.53GHz,WR 770/CPR 770/Nf	3 820
Microwave Horn	ARA/Poe	MWH-4010/A	1002	IV-7	0.4...1 GHz, 1kW, 12...15 dB/m, 10.3...15.3 dBi	8 300
Waveguide/Coax Adapter	ARA/Poe			IV-7	0.4...1 GHz, Cf	1 700
Standard Gain Horn Ant.	SciAt/LR	12-0.9	63	IV-7	0.95...1.15GHz,500W,13.7dB, WR770/CPR770	8 500
Double Ridged Guide Ant.	EMCO	3115	2111	IV-7	1GHz...18GHz,250W,Nf/50ohms,6...15dB	8 833
Double Ridged Guide Ant.	EMCO	3115	2073	IV-7	1GHz...18GHz,250W,Nf/50ohms,6...15dB	8 833 X
Double Ridged Horn Ant.	EMCO	3116	2018	IV-7	18..40GHz,50W,KF	3 400
Double Ridged Horn Ant.	EMCO	3116	2052	IV-7	18..40GHz,50W,KF	3 400
Standard Gain Horn Ant.	FXR/LR	L638A	141	IV-7	1.12...1.70GHz,500W,15.5dB,UG418B/U	8 500
Standard Gain Horn Ant.	SciAt/LR	12-1.7/SGH 1.7	001	IV-7	1.70...2.60GHz,500W,15.5dB,UG-437B/U	8 500
Standard Gain Horn Ant.	Narda	V 644	001	IV-7	2.6...3.95GHz,Sband,UG-584/U/16.5dB	2 720
Standard Gain Horn Ant.	SciAt/LR	12-2.6/SGH 2.6	001	IV-7	2.60...3.95GHz,500W,18dB,UG-584/U	3 750
Standard Gain Horn Ant.	Electroforms/Tho		001	XII-3	3.95...5.85GHz,25dB/UG-149A/U	1 793
Horn Antenna	FXR	H 638 A	50828	IV-7	3.95...5.85GHz,18dB/UG-149A/U/WR-187	2 300
Standard Gain Horn Ant.	SciAt/TU	12-3.9	549	IV-7	3.95...5.85GHz,500W,18dB,UG-407/U	2 750
Horn Antenna	Stoddart	91890-1	001	IV-7	4.3...7.3 GHz/6-9.2dB/Nf	3 880
Standard Gain Horn Ant.	Electroforms/Tho		001	XII-5	5.85...8.20GHz,25dB/UG-344/U	1 586
Horn Antenna	Sperry/Microline	56G1(equ.NARDA)	34	XII-5	5.85...8.2 GHz/17dB/UG-344/U	2 300
Horn Antenna	Demomay Bon.DBH	520-20	001	IV-7	7.05...10GHz,20dB/UG51	1 750
Horn Antenna	Demomay Bon.DBH	520-20	002	IV-7	7.05...10GHz,20dB/UG51	1 750
Horn Antenna	Stoddart	91891-1	001	IV-7	7.3...10GHz/7.8...10.5dB/Nf	3 880
Horn Antenna	Aitech	91891-1	14385	IV-7	7.3...10GHz/7.8...10.5dB/Nf	3 880
Horn Antenna	SciAt	12-7.0	103		7...10 GHz,UG51	3 000
Standard Gain Horn Ant.	Electroforms/Tho		001	XII-7	7.05...10GHz/25dB/UG-51/U	1 346
Horn Antenna	Military	AT/67/AP		IV-7		300
Horn Antenna	FXR	X 638 A,	8612	IV-7	8.2...12.4GHz,22dB/9.2GHz-WR90,UG-39/U	2300
Standard Gain Horn Ant.	Electroforms/Tho		001	XII-10	8.2...12.4GHz, 25dB,UG-39/U	1 086
Horn Antenna	FXR	X 638 A		IV-7	8.2...12.4GHz,22dB/9.2GHz-WR90,UG-39/U	-
Horn Antenna	Military	AT/68/UP B-50713	2865	IV-7	8.5...9.6GHz,10dB,Nf	700
Horn Antenna	Military	AT/68/UP P-320-B-4	2866	IV-7	8.5...9.6GHz,10dB,Nf	700
Horn Antenna	Military	AT/68/UF CS660159	2867	IV-7	8.5...9.6GHz,10dB,Nf	700
Horn Antenna	Military	AT/68/UF B-320 B-4	2868	IV-7	8.5...9.6GHz,10dB,Nf	700
M-Band Horn	Polarad	AN/PRR-6(XE.1) Band 5 # 19	XII-11	10...15GHz,WR-75,MIL-F-3922-70A-004		2 250
Standard Gain Horn Ant.	Electroforms/Tho		001	XII-11	10...15GHz, 25dB,UBR-120	1 346
Standard Gain Horn Ant.	Electroforms/Tho		001	XII-13	12.4...18GHz, 25dB,UG-419/U	1 277
Standard Gain Horn Ant.	Electroforms/Tho		001	XII-14	14.5...22GHz, 25dB,UBR-180	1 277
Standard Gain Horn Ant.	Mid Century	MC 20/31B	1362/86	XII-16	18...26.5GHz,20dB,WG20/R220/ WR42/UG-595/U	1 076
Standard Gain Horn Ant.	Mid Century	MC 20/31B	1362/86	XII-16	18...26.5GHz,20dB,WG20/R220/ WR42/UG-595/U	1 076
Standard Gain Horn Ant.	Electroforms/Tho		001	XII-16	18...26.5GHz,25dB,WG20/R220/ WR42/UG-595/U	1 241

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IV-20

ANTENNAS 20, Tripods, Antenna Masts, Ground Planes

Instrument	Manufacturer	Type	Serial #	Data	Specifications	Costs/DM
Antenna Rotator	Jebsee Kingrot	4 E 6200	2109122	IV-20	220VAC/68W/18VAC/360+5°,70s	150
Antenna Mast	Schwarzbeck	AM 9104	001	IV-20	4.5 m, OUTDOOR	2 895
Antenna Cable	F&G/Schwarzbeck	RG213/U/AK9513	001	IV-20	10 m,Nm/Nm,3dB/1GHz	132
Tripod Mast	Rohde&Schwarz	HFU-Z	891191/011	IV-20	1...5 m, OUTDOOR	13 435
Tripod	Rohde&Schwarz	HFU-Z	100.1114.02	IV-20		4 175
Antenna Mast	MEB	ATR 2	001	IV-20	5 m, OUTDOOR	2 884
Mast Fixture	Schwarzbeck	AM9104M	001	IV-20	Phenol grey	290
Motor Winde	MEB	FE3/FE2	001	IV-20		7 323
Antenna Mast	MEB	ATR 2	002	IV-20	5 m, OUTDOOR	2 884
Mast Fixture	Schwarzbeck	AM9104M	002	IV-20	Phenol grey	290
Motor Winde	MEB	FE3/FE2	002	IV-20		7 323
Antenna Mast	EMCO	2071-2	9408-1834	IV-20	7 m, INDOOR	24 860 X
Univ. Antenna Adapter	EMCO	102268	001	IV-20		1 080
Cable Reel	EMCO	103451	001	IV-20		3 400 X
Controller	EMCO	2090	-	IV-20		6 650
Hand Held Controller	EMCO	104081	9408-1834	IV-20		900 X
Duplex Fiber Optic Cable	EMCO	705320-10M	001	IV-20	10 m	517
Duplex Fiber Optic Cable	EMCO	705320-10M	002	IV-20	10 m	517
Tripod-Sensor-Support	HOLADAY/POE		001	IV-11	Dielectric, 46 cm	320
Tripod	Combinova		300/1	IV-20	Dielectric	300
Tripod	Combinova		10/1	IV-20	Dielectric	300
Tripod	MEB	ST 11	001	IV-20	Timber,adjustable,M12mm	500 X
Tripod Transit Bag	MEB	ST 11	001	IV-20	Black Plastic	100
Tripod	MEB	ST 11	008	IV-20	Timber,adjustable,M12mm	500G
Tripod Transit Bag	MEB	ST 11	008	IV-20	Black Plastic	100
Tripod	MEB	ST 11	09087	IV-20	Timber,adjustable,M12mm	500
Tripod Transit Bag	MEB	ST 11	09087	IV-20	Black Plastic	100
Antenna Mast Fixture/Adapter	Schwarzbeck	AMF 001	001	IV-20	22 mm Ø/M12,Alu	151
Antenna Mast Fixture/Adapter	Schwarzbeck	AMF 001	002	IV-20	22 mm Ø/M12,Alu	151
Antenna Mast Fixture/Adapter	Schwarzbeck	AMF 001	003	IV-20	22 mm Ø/M12,Alu	151
Antenna Mast Fixture/Adapter	EMCC DR. RASEK	001	001	IV-20	22 mm Ø/M12,Plastic	180
Antenna Mast Fixture/Adapter	EMCC DR. RASEK	002	001	IV-20	22 mm Ø/M12,Plastic	180
Tripod	EMCC DR.RASEK	TTr 001	001	IV-20	Timber,adjustable	367
Tripod	Singer	91 933-2	001	IV-20	Timber,adjustable, M12	2 376
Tripod Adapter	Singer	91 932-2	001	IV-20	Aluminium, M12	1 292
Tripod	Eaton-Ailtech	91 933-2	002	IV-20		2 295
Tripod Adapter	Eaton-Ailtech	91932-2	002	IV-20	0°...360°	1 292
Tripod Bag	Eaton-Ailtech	92 049-1	002	IV-20		577
Tripod	Eaton-Ailtech	91 933-2	003	IV-20		2 295
Tripod Adapter	Eaton-Ailtech	91932-2	003	IV-3	0°...360°	1 292
Tripod Bag	Eaton-Ailtech	92 049-1	003	IV-20		577
Tripod	EMCC DR.RASEK		001	IV-20	Yellow Plast,adjustable,M12mm	400
Antenna support for horn antennas	EMCC DR. RASEK		2396	IV-20	Height adjustment 0.68...1.05m	2 500
Antenna Mast	Eaton-Ailtech	90920-2	001	IV-20	1 m	797
Mast Clamp	Eaton-Ailtech		001	IV-20	Mast Clamp for Antenna	250
Mast Clamp	Eaton-Ailtech		002	IV-20	Mast Clamp for Antenna	250
Mast Clamp	Eaton-Ailtech		003	IV-20	Mast Clamp for Antenna	250
Ground Plane	EMCC DR. RASEK	DO-160	001	IV-20	Copper, 510cmx100cm,t=0.6mm	580
Ground Plane	EMCC DR. RASEK	Std	001	IV-20	Copper, 255cmx80cm,t=0.6mm	260
Ground Plane	EMCC DR. RASEK	MIL	003	IV-20	Copper,100cm x 250 cm, t=0.6mm	280
Ground Plane	EMCC DR. RASEK	FMA 11	002	IV-20	120cmx60cm, mesh	30
Ground Plane	EMCC DR. RASEK	FMA 11	001	IV-20	60cm x 60cm	22
Ground Plane	Eaton-Ailtech	92199-3	B2089-116	IV-20	30 x 30 cm	1 310

EMCC DR. RAŠEK

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V-3

EMI/RFI TEST INSTRUMENTS 3

Instrument	Manufacturer	Type	Serial #	Data	Specifications	Costs/DM
Open Area Test Site # 1a				V-3	20 m x 10 m, protected	0
Open Area Test Site # 1b				V-3	30 m x 15 m, protected	0
Open Area Test Site # 2				V-3	40 m x 6 m, free field	0
Open Area Test Site # 3				V-3	120 m x 80 m, free field	0
x Open Area Test Site # 4				V-3	40 m diameter, protected, FCC listed	0 x
Shielded Room # 1	EMCC DR.RASEK		Room #005	V-3	5.8 m x 3.0 m (39 T)	0
Shielded Cabinet # 2	EMCC DR.RASEK		Room #001	V-3	4.0 m x 3.5 m (53 T)	0
Shielded Room # 3	EMCC DR.RASEK		Room #002	V-3	4.0 m x 4.2 m (9 T)	0
Shielded Room # 4	EMCC DR.RASEK		Room #004	V-3	6.5 m x 4.2 m (10 T)	0
Shielded Room # 5a/5b	SIEMENS MATSHUSHITA		Room #008	V-3	12.65 m x 10.81 m x 3.02 m (+ 5.00 m x 2.80 m) (284 T)	0
Shielded Room # 6/1	EMCC DR.RASEK		SR 1	V-3	70m ² x 3.5m, Door 1.20m x 2.05m (98 T)	0
Shielded Room # 7/2	EMCC DR.RASEK		SR 2	V-3	130m ² x 3.5m, Door 3.55m x 2.83m (241 T)	0
Shielded Room # 8/3	EMCC DR.RASEK		SR 3	V-3	130m ² x 3.5m, Door 1.80m x 2.05m (184 T)	0
Shielded Cabinet # 8/3-1	SIEMENS	B8310	001	V-3	3.5m x 3.5m x 2.1m Door 0.87m x 1.99m (45T)	0
Shielded Cabinet # 8/3-2	SIEMENS	B8320	002	V-3	3.5m x 2.4m x 2.4m, Door 0.94m x 2.28m (42T)	0
Shielded Room # 9/4	EMCC DR.RASEK		SR 4	V-3	70m ² x 3.5m Door 1.2m x 2.05m (98 T)	0
Anechoic Room	Frankonia		001	V-5	9380 x 7000 x 3750 mm ³ , Turntable: 1 t/m ² , d = 2 m, Absorber: 90 cm / Ferrit-Absorber (242T)	0
Shielded Test Box	EMCC/ZARGES	SBX0011	001	V-3	439016S, Alu, 60 x 40 x 70cm, 8kg, Vent, Filter 220 VAC/10A, B84299-K21, 3xNf/Nf	3 150
Shielded Test Box	EMCC/ZARGES	SBX0011	002	V-3	439016S, Alu, 60 x 40 x 70cm, 8kg, Vent, Filter 220 VAC/10A, B84299-K21, 3xNf/Nf, 3xBNC, 50ohms, 3xBNC, 75ohms	3 150
Shielded Test Box	EMCC/ZARGES	SBX0011	003	V-3	Alu, 750x545x390	2 500
Shielded Test Box	EMCC/ZARGES	SBX0011	004	V-3	Alu, 550x350x375 Filter 230VAC/16A	2 300
Shielded Test Box	RITTAL	AE1010	001	V-3	Steel, 600x600x210mm	3 200
Shielded Test Box	RITTAL	AE1010	001	V-3	Stainless Steel, 600x600x210mm	3 200
Shield Attenuation Test Array	EMCC DR.RASEK	SATA 001	001	V-3	420x420, SR2, SR6/1	1 600
Shield Attenuation Test Array	EMCC DR.RASEK	SATA 001	002	V-3	420x420, SR2, SR6/1	1 600
Shield Attenuation Test Array	EMCC DR.RASEK	SATA 002a	001	V-3	440x440/100x100, 420x420, SR2, SR6/1	200
Test Panel	EMCC DR.RASEK	SATA 002b	001	V-3	460x460/155x155, 420x420/180x180 SR2, SR6/1, SR7/2	
Shield Attenuation Test Array	EMCC DR.RASEK	SATA 003	001	V-3	440x440/160x160, 420x420, SR2, SR6/1	200
Shield Attenuation Test Array	EMCC DR.RASEK	SATA 004	001	V-3	440x440/320x320, 420x420+345x345, SR2, SR6/1	200
Shield Attenuation Test Box	EMCC DR.RASEK	SATA 005	001	V-3	740x740x1500	
Shield Attenuation Test Array	EMCC DR.RASEK	SATA 006	001	V-3	800x800/400x400, 420x420, Test Box	
Shield Attenuation Test Array	EMCC DR.RASEK	SATA 006a	001	V-3	1060x1060/500x500, 420x420, SR2	
Shield Attenuation Test Array	EMCC DR.RASEK	SATA 006b	001	V-3	500x500/310x310, 420x420+330x330, SR6/1, SR2	
Shield Attenuation Test Array	EMCC DR.RASEK	SATA 006c	001	V-3	500x500/310x310, 330x330, SR6/1, SR2	
Shield Attenuation Test Array	EMCC DR.RASEK	SATA 007	002	V-3	800x800/322x322, 345x345, Test Box	
Shield Attenuation Test Array	EMCC DR.RASEK	SATA 008	001	V-3	800x800, 770x770, Test Box	4 250
Shield Attenuation Test Array	EMCC DR.RASEK	SATA 009	001	V-3	3 mm, 1060x1060, SR2	800
Shield Attenuation Test Array	EMCC DR.RASEK	SATA 010	001	V-3	1060x1060/3 mm/3x Nf/Nf, 1030x1030, SR2	1 000
Shield Attenuation Test Array	EMCC DR.RASEK	SATA 011	001	V-3	2048x1060/25 mm, SR6/1	1 460
0.4-t-Turntable East, rem. contr.	EMCC DR. RASEK	TTR	001	V-3	H = 6, diameter = 120 (8T)	0
4-t-Turntable East, rem. contr.	EMCC DR. RASEK	TTR	001	V-3	H = 2, diameter = 300 (44T)	0
x 5-t-Turntable South, rem. contr.	EMCC DR. RASEK	TTR	002	V-3	H = 2, diameter = 400 (64T)	0 x
Turntable 0.4t	EMCC/Moll	TT	001	V-3	H = 6, diameter = 78 (1T)	0
Turntable 0.4t	EMCC/Moll	TT	001	V-3	H = 6, diameter = 94 (1T)	0
Turntable 0.4t	EMCC/Moll	TT	002	V-3	H = 6, diameter = 94 (1T)	0
Turntable on rollers, 0.4t	EMCC/Moll	TT	003	V-3	H = 57, diameter = 80 (2T)	0
0.1-t-Turntable rem. contr.	EMCC DR. RASEK	TT	005	V-3	H = 80, diameter = 94 (10T)	0
Gas Exhaust Pipe	Nedermann	NE-060677	001	V-3	2x10 m, 0.69 kg/m, max. 170°C, synthetic, DN 75 with funnel for exhaust pipe (2T)	0
Gas Exhaust Pipe	Witzenmann	SI 360 S	001	V-3	1x2 m, DN 70, steel, max. 400°C	0
Gas Exhaust Vacuum Set	Nedermann	N24	001	V-3	Ventilator 400V/0.75kW, 2400m ³ /h, with Funnel and pipe (4T)	0
Ground Plane	EMCC DR.RASEK	Std	001	V-3	Copper, 255cmx80cm, t=0.6mm	260
Ground Plane	EMCC DR.RASEK	FMA 11	002	V-3	120cmx60cm, mesh	30
Ground Plane	EMCC DR.RASEK	FMA 11	001	V-3	60cm x 60cm	22
Ground Plane	EMCC DR.RASEK	MIL	003	V-3	Copper, 100cm x 250 cm, t=0.6mm	280
Ground Plane	Eaton-Aitech	92199-3	B2089-116	IV-2B	30 x 30 cm	1 310

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EMCC DR. RAŠEK

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V-5

EMI/RFI TEST INSTRUMENTS 5

Current Probes, Anechoic Material

Instrument	Manufacturer	Type	Serial #	Data	Specifications	Costs/DM
Current Probe/ Waveform Transformer	EMCC DR. RASEK	SG DO-WT 001	001	V-4	Single Turn Primary, 0.5mm/12.5...20mm Cu-strip, 2x4 Ferrites, BNCf	1 305
Current Probe/ Waveform Transformer	EMCC DR. RASEK	SG DO-WT 002	001	V-4	Single Turn Primary, 0.5mm/12.5...20mm Cu-strip, 2x3 Ferrites, BNCf	979
Current Probe/ Waveform Transformer	EMCC DR. RASEK	SG DO-WT 003	001	V-4	Single Turn Primary, 0.5mm/12.5...20mm Cu-strip, 6 Ferrites, BNCf	228
Current Inject. Probe	Chase	CIP 36A	1084-0689	V-4	il=7dB/(10...)12...440(...500)MHz/200W/ N/43mm	5 020
Current Inject. Probe	Chase	CIP 37A	1061-0408	V-4	il=6dB/(6...)7...360(...450)MHz/200W/ N/43mm	4 390
Calibration Jig	Chase	PCJ 9201	1029-1188	V-4	for CIP 36A/37A	3 390
Calibration Jig	EMCC	CJ 001	001	V-4	2 x Nf, 17x14x12cm	987
Calibr. Jig/ Filter Test Box	Schwarzbeck	VDE 50 ohms	001	V-4	0...1GHz/2x10dB/50ohms, 46x16x16 cm	1 510
Current Inject. Probe	FCC	F-130-1A	39	V-5	3.5MHz...525MHz, Input Forward Power Rating 400 W	3 000
Current Inject. Probe	FCC	F-130-1A	40	V-5	3.5MHz...525MHz, Input Forward Power Rating 400 W	3 000
Current Inject. Probe	FCC	F-130-1A	41	V-5	3.5MHz...525MHz, Input Forward Power Rating 400 W	3 000
Current Inject. Probe	FCC	F-140	65	V-5	0.5MHz...1000MHz, Input Forward Power Rating 100 W	3 000
Current Inject. Probe	FCC	F-140	66	V-5	0.5MHz...1000MHz, Input Forward Power Rating 100 W	3 000
Current Inject. Probe	FCC	F-140-HV	01	V-5	0.5MHz...1000MHz, Input Forward Power Rating 100 W, HN-Connector	3 500
Current Inject. Probe	FCC	F-130-2	08	V-5	0.5MHz...400MHz, Maximum Input Power Rating 500 W of 30 min.	6 080
Calibration Jig	FCC	FCC-BCICF-1-HN	01	V-5	for F-140, F-140-HV	1 700
EM Injection Clamp	Luethi	EM 101	9434146	V-5	0.15...1000 MHz, Nf	7 620
EM injection Clamp	Schwarzbeck	EM 101	35305	V-5	0.15...1000 MHz, Nf	6 885
Decoupling Clamp	Luethi	FTC 101	4188	V-5	0.15...1000 MHz	1 815
Decoupling Clamp	Schwarzbeck	FTC 101	4370	V-5	0.15...1000 MHz	2 230
Decoupling Clamp	Schwarzbeck	FTC 101	4424	V-5	0.15...1000 MHz	2 453
Decoupling Clamp	Schwarzbeck	FTC 101	4433	V-5	0.15...1000 MHz	2 453
Absorbing Clamp	Luethi	MDS 21 fixed	831111	V-5	30 MHz...1 GHz, 17 dB	2 474
Coax Cable 50 N/BNC	Berkenh&Drebes	M17/84-RG 223	001	X-6	5 m/Nm/BNCm/50 ohms	75
Absorbing Clamp	Luethi	MDS 21 clamp	841240	V-5	30 MHz...1 GHz, 17 dB	4 702
Absorbing Clamp	Schwarzbeck	MDS 21 clamp	2777	V-5	30 MHz...1 GHz, 17 dB	5 220
Slideway for Absorbing Clamp	EMCC DR. RASEK	SW 001	0794	V-5	5.2 m/120 x 60, wood, driven by tooth belt	500
Slideway for Absorbing Clamp	EMCC DR. RASEK	SW001	1197	V-5	5.8m/120x60,wood,driven by tooth belt	900
Coax Cable 50 N/BN	Berkenh&Drebes	M17/84-R 22	002	X-6	5 m/Nm/BNCm/50 ohms	75
RF Ferrite Abs. Filter	Luethi	Fg 33 x 15	001	V-5	30 MHz...1 GHz	777
Anechoic Wall	EMCC DR. RASEK/GRACE	VHP 26	001	V-5	3m x 2m, 30dB/300MHz (17T)	0
Anechoic Wall	EMCC DR. RASEK/GRACE	VHP 26	002	V-5	3m x 2m, 30dB/300MHz (17T)	0
Anechoic Wall	EMCC DR. RASEK/GRACE	VHP 26	003	V-5	3m x 2m, 30dB/300MHz (17T)	0
Ferrite RF Floor Absorber	Kabelwerk Eupen	CUNICO 20201012133	7053996	V-5	16.2 qm, 180 plates, 30...3000 MHz	0
X Anechoic Room	Frankonia		001	V-5	9380 x 7000 x 3750 mm ³ , Turntable: 1 t/m ² , d = 2 m Absorbers: 90 cm / Ferrite-Absorber, (242T)	0X

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VII-9

GENERAL PURPOSE TEST INSTRUMENTS 9, Batteries, Chargers, Cameras & Projectors

Instrument	Manufacturer	Type	Serial #	Data	Specifications	Costs/DM
Batteries						
12-V-Battery	Bosch	54312	# 1-10	VII-9	12 V/43 Ah/200 A e.a.	225X
12-V-Battery	Exxon	2745	# 1	VII-9	12 V/45 Ah/200 A	100X
Chargers						
Universal Battery Charger	Westfalia	SS104	001	VII-9	4 x 9V, 7 x 1.2V	50
Universal Battery Charger	MW	MW	MW 398	VII-9	1 x 9V, 4 x 1.2V	40
Battery Charger	Rohlf Feinelec.	51101	001	VII-9	2 x 9V	29
Battery Charger	Liedtke KG	108NE/D2				
		MonzaT2SE	001	VII-9	220V/50Hz, 6V/12V, 6A DC	100
Battery 3 Ah/24 V	Schwarzbeck	BG 2	001	III-1	24 VDC/3A	1 640B
Charger	Schwarzbeck	LG 2	001	III-1	220+110 VAC/24 VDC	760
Charger	RFT	LG 130	920078	VII-9	4...100VDC, 0.3...30A	9 950
Automatic Charger	Statron/Voltcraft	2234	001	VII-9	12V/5A, 230V/50Hz, 2.5kg for Kärcher Sweeping Machine	100
Cameras & Projectors						
Close-up Camera System	Polaroid	CU-5 88-1,600-804	001	VII-9	Camera Body, Film 667	650
Lens Unit	Polaroid	88-3	001	VII-9	with lens 75 mm/3"	990
Hood	Polaroid	88-13	F5B	VII-9	Mag. 0.85/1.16x138mm	160
Film	Polaroid	667		VII-9	Films 3 1/4" x 4 1/4"(83x108mm)	15
Frame 1:1	Polaroid	1:1	001	VII-9		165
Auto Focus Camera	Polaroid	670 AF	001	VII-9	Film type 779 or 600	250G
Auto Focus Camera	Polaroid	SLR M680,605-535 121444		VII-9	Film type 779 or 600	710G
Film	Polaroid	600		VII-9		e.a. 20
Auto Focus Camera	Polaroid	Impulse AF	001	VII-9	Film type 600 Plus	250
Auto Focus Camera	Polaroid	Impulse AF	002	VII-9	Film type 600 Plus	250
Auto Focus Camera	Polaroid	Impulse AF	003	VII-9	Film type 600 Plus	250
Auto Focus Camera	Polaroid	Impulse AF	004	VII-9	Film type 600 Plus	250
Auto Focus Camera	Polaroid	Impulse AF	005	VII-9	Film type 600 Plus	250
Auto Focus Camera	Polaroid	Impulse AF	006	VII-9	Film type 600 Plus	250
Camera Bag	Jatex	Frankonia	001	VII-9		35
Film	Polaroid	600		VII-9	Type 600Plus	e.a. 25
Camera w. Change Cassette	Polaroid	600 SE	001	VII-9	Film type 667	1 092
Camera w. Change Cassette	Polaroid	600 SE	002	VII-9	Film type 667	1 092
Optics	Seiko	600 SE	001	VII-9	4.7/127 mm150 mm	734
Optics	Seiko	600 SE	002	VII-9	4.7/127 mm150 mm	734
Flash	Metz	45 CL3	001	VII-9	NC accu pack	543B
Flash	Metz	45 CL3	002	VII-9	NC accu pack	543B
Film	Polaroid	667		VII-9	Film type 667	25
Battery Charger	Metz	709	0000709	VII-9	120/220V, 6.8V, 400mA	30
Battery Charger	Metz	709	0000709	VII-9	120/220V, 6.8V, 400mA	30
35 mm Camera Body	Minolta	DYNAX 9xi	11302086	VII-9	24 x 36 mm, AF, TTL, 30 s...1/12000 s, 740 g	1 910
Quartz Data Back	Minolta	QD9		VII-9	Time, Date on Film	190
Battery Pack	Minolta	BP-9xi		VII-9	4 x 1.5 V, Mignon	260
Program Flash	Minolta	5400 HS	1954646	VII-9	TTL, AF illuminator, 24...105 mm, for Dynax, Guide No. 42	660
Chip Card Close up	Minolta	Close up		VII-9		65
Lens	Minolta	AF 24-85	13507681	VII-9	AF 24-85/3.5...4.5	860
Lens	Sigma	90 mm Macro	2015796	VII-9	AF90/2.8 Macro	700
Tripod	Manfrotto	Basic	144B/FE09	VII-9		330
Camera Case	Rimowa	Manhattan		VII-9		255
Clamp on lamp holder	Kaiser	3102	-	VII-9	max. 500 W, E 27	96
Clamp on lamp holder	Kaiser	3102	-	VII-9	max. 500 W, E 27	96
Foto lamp	Kaiser	3129	-	VII-9	500 W, 230 V, E 27, 5000 K	96
Foto lamp	Kaiser	3129	-	VII-9	500 W, 230 V, E 27, 5000 K	96
Overhead Projector	3 M	6202	106578	VII-9	220 VAC/portable	2 100
Halogen Lamp 24VDC/200W	3 M	EWFF#78-8014-6797-4		VII-9	24 VDC/200W	100
Sound Film Projector	Bauer	P6#130-0103		VII-9	16mm/220VAC/Portable	2 510

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VII-10
GENERAL PURPOSE TEST INSTRUMENTS 10, Video Systems, Audio Systems, Electronic Cameras, Infrared Remote Controls

Instrument	Manufacturer	Type	Serial #	Data	Specifications	Costs/DM
<u>Video System</u>						
Camcorder	Sony	CCD-TR810E	1000003	VII-10	Hi 8, PAL, 2ix, 4, 1-61, 5mm, 7, 2V/4, 2W, 940g, 104x109x202mm	1 950
Shielded Video Monitoring System with Fiberoptic	Fiber options/EMCC	MS 02	3096	VII-10	* Shielded Box with AV to fiberoptic converter * Power supply 230 VAC/12 VDC * Box with fiberoptic to AV converter	8 200
Colour TV	Sanyo	CEP3014D	27013258	VII-10	230 V/50 Hz, 36 cm, remote control	500
Video System	Hyundai	HO-14		VII-10	16mm-Standart Objective C-Mount with internal microphone	
CCTV Camera	Hyundai	CO-2200		VII-10	17,1cm x 11cm x 6cm, 0,66kg	
Monitor 9" b/w	Hyundai	CO-942M	00612656	VII-10	220VAC, 50Hz, 50W; 22cm x 22cm x 23cm; 8,2kg	
Camera Fixture		CO-2110		VII-10	4 Channel Video/Audio switch	
Intercommunication System		CO-2201		VII-10	flexible	
Cable		CO-1060		VII-10	Audio Input	
Adapter Cable				VII-10	18m, with modular cable Connectors (60"-System)	
				VII-10	5m, with modular cable Connectors (60"-System)	
				VII-10	Cynch connectors, modular cable 2m	1120
<u>Audio System</u>						
Fiber Optic Intercom. System	EMCC	ICS 01	001	VII-10	2x5m Fiber Optic Link, 220V/12VDC	450
Public exchange	Auerswald/EMCC	ETS 2006	2995	VII-10	230 VAC/50 Hz/20 W, Public line: 2 x analog, IWW, MFV Private line: 6 x analog Terminals, 2 lines with filter 3,4 kHz, IWW, MFV, Fax-Modem Switch, RS-232C, Interface, 19"-Case, 5 kg	1 200
Telephone	Conrad Electronic	Design Telefon 2000	001	VII-10	IWW, MFV, volume controls, optical bell	50
Telephone	Conrad Electronic	Design Telefon 2000	002	VII-10	IWW, MFV, volume controls, optical bell	50
CCD Digital Camera Nr. 1	Apple	Quick Take 150	TL6030ES4NW	VII-9	640x480, 24 Bit, 1 MB	
AC-Adapter	Apple	M56527(APS-46E)	008281	VII-9	AC 100-240 V, DC 7,5 V, 3 A	
Quick-Take	Apple	Version 1.5 WIN		VII-9	Software	
PhotoNow!	PictureWorks Techn.	Version 1.5 WIN		VII-9	TWAIN-Driver for quick Take 150	1 485
CCD Digital Camera Nr. 2	Apple	Quick Take 150	TL6030EU4NW	VII-9	640x480, 24 Bit, 1 MB	
AC-Adapter	Apple	M56527(APS-46E)	011883	VII-9	AC 100-240 V, DC 7,5 V, 3 A	
Quick-Take	Apple	Version 1.5 WIN		VII-9	Software	
PhotoNow!	PictureWorks Techn.	Version 1.5 WIN		VII-9	TWAIN-Driver for quick Take 150	1 485
CCD Digital Camera Nr. 3	Apple	Quick Take 150	TL5362754NW	VII-9	640x480, 24 Bit, 1 MB	
AC-Adapter	Apple	M56527(APS-46E)	043335	VII-9	AC 100-240 V, DC 7,5 V, 3 A	
Quick-Take	Apple	Version 1.5 WIN		VII-9	Software	
PhotoNow!	PictureWorks Techn.	Version 1.5 WIN		VII-9	TWAIN-Driver for quick Take 150	1 485
CCD Digital Camera Nr. 4	Kodak	DC 120	EKB71500860	VII-9	1280x960, 24 Bit, 2 MB	
Compact Flash Memory Card	Kodak	SP SDCFB-10-144		VII-9	10 MB, ATA True DiE, PC Card Adapter Typ II	
Photo Enhancer 3.2				VII-9	Software	
Twain Acquire Modul for Windows	Kodak			VII-9	Software	
Picture Transfer Software	Kodak			VII-9	Software	
AC-Adapter	Kodak	820 9827		VII-9	AC 220-240 V	2 354
<u>Remote Control Devices</u>						
Infra Red Remote Control	Volltronic	3104	001	VII-10	9 V, XMTR	100
Infra Red Remote Control	Volltronic	3104	002	VII-10	9 V, XMTR	100
Infra Red Remote Control	Volltronic	3110	001	VII-10	220 V/10A/50 Hz, RCVR	50
Infra Red Remote Control	Volltronic/EMCC	3110	002	VII-10	220 V/10A/50 Hz/EMCC, RCVR	190
Pneumatic Switch	EMCC	PS 1	4197	VII-10	Double throw Switch, 230 V-/16 A	210

S = 20 979

5.4 Two-channel transmitter component list

NOMECOMP	CODCOMP	DESCRCOMP
	YTRXRADO2US0	Y X-RADO US TRASMETTITORE 2CH
CS	ZAD0968	CIRC.STAMP.DOPPIO LATO 968AB
R1	ZBA21J222	RESIST.0805 1/8W 5% 2.2 KOhm
R3	ZBA21J472	RESIST.0805 1/8W 5% 4.7 KOhm
R4	ZBA21J220	RESIST.0805 1/8W 5% 22 Ohm
R5	-	
R6	ZBA21J000	RESIST.0805 1/8W 5% 0 Ohm
R13	ZBA21J472	RESIST.0805 1/8W 5% 4.7 KOhm
R14	ZBA21J183	RESIST.0805 1/8W 5% 18KOhm
R15	ZBA21J102	RESIST.0805 1/8W 5% 1 KOhm
R17	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R18	ZBA21J102	RESIST.0805 1/8W 5% 1 KOhm
C1	ZCA6.8CA21	COND.CER.0805 NPO C 50V 6.8pF
C2	ZCA390JA21	COND.CER.0805 NPO J 50V 39pF
C3	ZCA151JA21	COND.CER.0805 NPO J 50V 150pF
C4	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C5	ZCA5.6CA21	COND.CER.0805 NPO C 50V 5.6pF
C7	ZCA3.3CA21	COND.CER.0805 NPO C 50V 3.3pF
C8	-	
C9	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C10	ZHLHSMSC670	DIODO LED SMT 0805 ROSSO
C11	-	
C12	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C13	ZCA390JA21	COND.CER.0805 NPO J 50V 39pF
C14	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C15	-	
C16	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
D3	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D4	ZHA23BAV70	DIODO SMT SOT23 BAV 70
T2	ZFA23S852T	TRANSISTOR SOT23 S852T TFK
T7	ZFA23BC847B	TRANSISTOR SMT SOT 23 BC 847B
IC1	ZGAHCS200-1SN	CIRC.INT.SMT uP HCS200-I/SN
L1	ZMD022K32	INDUTTANZA SMT 22nH K MURATA
L5	ANTENNA PRINTED ON THE CIRCUIT BOARD	
Q1	ZIR433.92-SMT	RIS.SMT 433.92 MHz R02101A RFM
P5	ZLIB3S.1002P	TASTO SMT B3S.1002P OMRON
P7	ZLIB3S.1002P	TASTO SMT B3S.1002P OMRON
B1	XVVPILA435S-	X LAMELLA PILA 435 SINISTRA(-)
B2	XVVPILA435D+	X LAMELLA PILA 435 DESTRA (+)
J1	-	

5.5 Four-channel transmitter component list

NOMECOMP	CODCOMP	DESCRCOMP
	YTRXRADO4US0	Y X-RADO US TRASMETTITORE 4CH
CS	ZAD0968	CIRC.STAMP.DOPPIO LATO 968AB
R1	ZBA21J222	RESIST.0805 1/8W 5% 2.2 KOhm
R2	ZBA21J000	RESIST.0805 1/8W 5% 0 Ohm
R3	ZBA21J472	RESIST.0805 1/8W 5% 4.7 KOhm
R4	ZBA21J220	RESIST.0805 1/8W 5% 22 Ohm
R5	-	
R6	-	
R13	ZBA21J472	RESIST.0805 1/8W 5% 4.7 KOhm
R14	ZBA21J183	RESIST.0805 1/8W 5% 18KOhm
R15	ZBA21J102	RESIST.0805 1/8W 5% 1 KOhm
R17	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R18	ZBA21J102	RESIST.0805 1/8W 5% 1 KOhm
C1	ZCA6.8CA21	COND.CER.0805 NPO C 50V 6.8pF
C2	ZCA390JA21	COND.CER.0805 NPO J 50V 39pF
C3	ZCA151JA21	COND.CER.0805 NPO J 50V 150pF
C4	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C5	ZCA5.6CA21	COND.CER.0805 NPO C 50V 5.6pF
C7	ZCA3.3CA21	COND.CER.0805 NPO C 50V 3.3pF
C8	-	
C9	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C10	ZHLHSMSC670	DIODO LED SMT 0805 ROSSO
C11	-	
C12	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C13	ZCA390JA21	COND.CER.0805 NPO J 50V 39pF
C14	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C15	-	
C16	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
D1	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D2	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D3	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D4	ZHA23BAV70	DIODO SMT SOT23 BAV 70
T2	ZFA23S852T	TRANSISTOR SOT23 S852T TFK
T7	ZFA23BC847B	TRANSISTOR SMT SOT 23 BC 847B
IC1	ZGAHCS200-ISN	CIRC.INT.SMT uP HCS200-I/SN
L1	ZMD022K32	INDUTTANZA SMT 22nH K MURATA
L5	ANTENNA PRINTED ON THE CIRCUIT BOARD	
Q1	ZIR433.92-SMT	RIS.SMT 433.92 MHz R02101A RFM
P5	ZLIB3S.1002P	TASTO SMT B3S.1002P OMRON
P6	ZLIB3S.1002P	TASTO SMT B3S.1002P OMRON
P7	ZLIB3S.1002P	TASTO SMT B3S.1002P OMRON
P8	ZLIB3S.1002P	TASTO SMT B3S.1002P OMRON
B1	XVVPILA435S-	X LAMELLA PILA 435 SINISTRA(-)
B2	XVVPILA435D+	X LAMELLA PILA 435 DESTRA (+)
J1	-	

6.6 One-channel MINI receiver component list

NOMECOMP	CODCOMP	DESCRCOMP
	YRMXRADO1US0	Y XRADO RICEVITORE MINI 1CH
CS	ZAD1037	CIRC.STAMP. DOPPIO LATO 1037AB
R1	ZBA21J102	RESIST.0805 1/8W 5% 1 KOhm
R2	ZBA21J333	RESIST.0805 1/8W 5% 33 KOhm
R3	ZBA21J333	RESIST.0805 1/8W 5% 33 KOhm
R4	ZBA21J223	RESIST.0805 1/8W 5% 22 KOhm
R5	ZBA21J123	RESIST.0805 1/8W 5% 12 KOhm
R6	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R7	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R8	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R9	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R11	ZBA21J104	RESIST.0805 1/8W 5% 100 KOhm
R12	ZBA21J472	RESIST.0805 1/8W 5% 4.7 KOhm
R13	ZBA21J473	RESIST.0805 1/8W 5% 47 KOhm
R14	ZBA21J473	RESIST.0805 1/8W 5% 47 KOhm
R15	ZBA21J183	RESIST.0805 1/8W 5% 18KOhm
R17	ZBA21J102	RESIST.0805 1/8W 5% 1 KOhm
R18	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R19	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R20	ZBA31J680	RESIST.1206 1/8W 5% 68 Ohm
R21	ZBB100J121	RESIST.ASS. 1W 5% 120 Ohm
R22	-	
C1	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C2	ZCA100JA21	COND.CER.0805 NPO J 50V 10pF
C3	ZCA471JA21	COND.CER.0805 NPO J 50V 470pF
C4	ZCA2.2CA21	COND.CER.0805 NPO C 50V 2.2pF
C5	ZCA3.3CA21	COND.CER.0805 NPO C 50V 3.3pF
C6	ZCA101JA21	COND.CER.0805 NPO J 50V 100pF
C8	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C9	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C10	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C11	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C12	ZCA151JA21	COND.CER.0805 NPO J 50V 150pF
C13	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C15	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C16	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C17	ZCA221JA21	COND.CER.0805 NPO J 50V 220pF
C18	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C19	ZCA680JA21	COND.CER.0805 NPO J 50V 68pF
C20	-	
C21	ZCA100JA21	COND.CER.0805 NPO J 50V 10pF
C22	ZCA8.2CA21	COND.CER.0805 NPO C 50V 8.2pF
C23	ZCA474KD21	COND CERAMICO SMT 0805 470nF
C24	ZCA221JA21	COND.CER.0805 NPO J 50V 220pF
C25	ZCA471JA21	COND.CER.0805 NPO J 50V 470pF
C26	ZCA330JA21	COND.CER.0805 NPO J 50V 33pF
C27	ZCA330JA21	COND.CER.0805 NPO J 50V 33pF
C28	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C29	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C30	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF

C32	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C33	ZCA100JA21	COND.CER.0805 NPO J 50V 10pF
C34	ZCA104KD31	COND.CER.1206 X7R K 50V 100nF
C35	ZEA103J10005	COND.SCAT.MKT 10nF 100V J P5
C36	-	
C37	ZCA105ZC21	COND.CER. 0805 Y5V 1uF 16V
C38	ZCA101JA21	COND.CER.0805 NPO J 50V 100pF
CE1	ZDD221M3505	COND.EL.220uF 35V M P5 10x12.5
CE2	ZDA470M35	COND.EL.SMT 47uF 35V M 6.3x6.3
CE3	ZDA220M16	COND.EL.SMT 22uF 16V M 5x5 WX
CE4	ZDA100M16	COND.EL.SMT 10uF 16V M 4x5 WX
L1	ZMD.68M32	INDUTTANZA SMT 0.68uH 3,2x2,5M
L6	ZMD1.0K32	INDUTTANZA SMT 1.0uH 3.2X2.5 K
L4	ZMD022K32	INDUTTANZA SMT 22nH K MURATA
L5	ZMD022K32	INDUTTANZA SMT 22nH K MURATA
L8	ZMD010K32	INDUTTANZA SMT 10nH K MURATA
D1	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D2	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D3	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D4	ZHL23LTL907NA	DIODO LED SOT23 ROSSO NASTRATO
D7	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D8	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D9	ZHABB619	DIODO VARICAP SMT BB619
D6	ZHA42M5	DIODO SMT M5 600V 1A
T1	ZFA23S852T	TRANSISTOR SOT23 S852T TFK
T2	ZFA23S852T	TRANSISTOR SOT23 S852T TFK
T3	ZFA23BC817-25	TRANSISTOR SMT SOT 23 BC817-25
I1	ZGL78L05	STAB. SMT 78L05F 5V 150mA
IC1	ZGANM24C16EM8	CIRC.INT. NM24C16EM8 NATIONAL
IC2	ZGAMC33064	CIRC.INT. SMT MC33064D-5 (SO8)
IC3	ZGAKESRX01	CIRC. INT. SMT KESRX01
IC4	ZGAPIC16C58A	MICROPR.SMT PIC16C58A-04I/SO
Z2	ZHT005SMT	ZENAMIC 5 VOLT SMT
Q1	ZIB6.775	QUARZO HC59 6.775MHz
P1	ZLIB3S.1002P	TASTO SMT B3S.1002P OMRON
P2	ZLIB3S.1002P	TASTO SMT B3S.1002P OMRON
RL1	ZLRS1C09	RELE SUBMIN. 1 SCAMBIO 9V
M1	ZPM10P	MORS.10 POLI P=5 BASSO PROFILO
J1	-	
J2	ZPA02M	PIN STRIP MASCHIO 2 PINS
..	ZPTJUMPER2.5	JUMPER PASSO 2.54mm
T.P.	ZPA1F	PIN FEMMINA DA C.S.

6.7 Two-channel MINI receiver component list

NOMECOMP	CODCOMP	DESCRCOMP
	YRMXRADO2US0	Y XRADO RICEVITORE MINI 2CH
CS	ZAD1037	CIRC.STAMP. DOPPIO LATO 1037AB
R1	ZBA21J102	RESIST.0805 1/8W 5% 1 KOhm
R2	ZBA21J333	RESIST.0805 1/8W 5% 33 KOhm
R3	ZBA21J333	RESIST.0805 1/8W 5% 33 KOhm
R4	ZBA21J223	RESIST.0805 1/8W 5% 22 KOhm
R5	ZBA21J123	RESIST.0805 1/8W 5% 12 KOhm
R6	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R7	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R8	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R9	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R10	ZBA21J472	RESIST.0805 1/8W 5% 4.7 KOhm
R11	ZBA21J104	RESIST.0805 1/8W 5% 100 KOhm
R12	ZBA21J472	RESIST.0805 1/8W 5% 4.7 KOhm
R13	ZBA21J473	RESIST.0805 1/8W 5% 47 KOhm
R14	ZBA21J473	RESIST.0805 1/8W 5% 47 KOhm
R15	ZBA21J183	RESIST.0805 1/8W 5% 18KOhm
R17	ZBA21J102	RESIST.0805 1/8W 5% 1 KOhm
R18	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R19	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R20	ZBA31J680	RESIST.1206 1/8W 5% 68 Ohm
R21	ZBB100J121	RESIST.ASS. 1W 5% 120 Ohm
R22	-	
C1	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C2	ZCA100JA21	COND.CER.0805 NPO J 50V 10pF
C3	ZCA471JA21	COND.CER.0805 NPO J 50V 470pF
C4	ZCA2.2CA21	COND.CER.0805 NPO C 50V 2.2pF
C5	ZCA3.3CA21	COND.CER.0805 NPO C 50V 3.3pF
C6	ZCA101JA21	COND.CER.0805 NPO J 50V 100pF
C8	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C9	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C10	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C11	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C12	ZCA151JA21	COND.CER.0805 NPO J 50V 150pF
C13	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C15	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C16	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C17	ZCA221JA21	COND.CER.0805 NPO J 50V 220pF
C18	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C19	ZCA680JA21	COND.CER.0805 NPO J 50V 68pF
C20	-	
C21	ZCA100JA21	COND.CER.0805 NPO J 50V 10pF
C22	ZCA8.2CA21	COND.CER.0805 NPO C 50V 8.2pF
C23	ZCA474KD21	COND CERAMICO SMT 0805 470nF
C24	ZCA221JA21	COND.CER.0805 NPO J 50V 220pF
C25	ZCA471JA21	COND.CER.0805 NPO J 50V 470pF
C26	ZCA330JA21	COND.CER.0805 NPO J 50V 33pF
C27	ZCA330JA21	COND.CER.0805 NPO J 50V 33pF
C28	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C29	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C30	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF

C32	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C33	ZCA100JA21	COND.CER.0805 NPO J 50V 10pF
C34	ZCA104KD31	COND.CER.1206 X7R K 50V 100nF
C35	ZE103J10005	COND.SCAT.MKT 10nF 100V J P5
C36	-	
C37	ZCA105ZC21	COND.CER. 0805 Y5V 1uF 16V
C38	ZCA101JA21	COND.CER.0805 NPO J 50V 100pF
CE1	ZDD221M3505	COND.EL.220uF 35V M P5 10x12.5
CE2	ZDA470M35	COND.EL.SMT 47uF 35V M 6.3x6.3
CE3	ZDA220M16	COND.EL.SMT 22uF 16V M 5x5 WX
CE4	ZDA100M16	COND.EL.SMT 10uF 16V M 4x5 WX
L1	ZMD.68M32	INDUTTANZA SMT 0.68uH 3,2x2,5M
L6	ZMD1.0K32	INDUTTANZA SMT 1.0uH 3.2X2.5 K
L4	ZMD022K32	INDUTTANZA SMT 22nH K MURATA
L5	ZMD022K32	INDUTTANZA SMT 22nH K MURATA
L8	ZMD010K32	INDUTTANZA SMT 10nH K MURATA
D1	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D2	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D3	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D4	ZHL23LTL907NA	DIODO LED SOT23 ROSSO NASTRATO
D7	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D8	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D9	ZHABB619	DIODO VARICAP SMT BB619
D6	ZHA42M5	DIODO SMT M5 600V 1A
T1	ZFA23S852T	TRANSISTOR SOT23 S852T TFK
T2	ZFA23S852T	TRANSISTOR SOT23 S852T TFK
T3	ZFA23BC817-25	TRANSISTOR SMT SOT 23 BC817-25
T4	ZFA23BC817-25	TRANSISTOR SMT SOT 23 BC817-25
I1	ZGL78L05	STAB. SMT 78L05F 5V 150mA
IC1	ZGANM24C16EM8	CIRC.INT. NM24C16EM8 NATIONAL
IC2	ZGAMC33064	CIRC.INT. SMT MC33064D-5 (SO8)
IC3	ZGAKESRX01	CIRC. INT. SMT KESRX01
IC4	ZGAPIC16C58A	MICROPR.SMT PIC16C58A-04I/SO
Z2	ZHT005SMT	ZENAMIC 5 VOLT SMT
Q1	ZIB6.775	QUARZO HC59 6.775MHz
P1	ZLIB3S.1002P	TASTO SMT B3S.1002P OMRON
P2	ZLIB3S.1002P	TASTO SMT B3S.1002P OMRON
RL1	ZLRS1C09	RELE SUBMIN. 1 SCAMBIO 9V
RL2	ZLRS1C09	RELE SUBMIN. 1 SCAMBIO 9V
M1	ZPM10P	MORS.10 POLI P=5 BASSO PROFILO
J1	-	
J2	ZPA04M-5,08	PIN 4 VIE PASSO 5,08
J2	ZPA07M	PIN 7 VIE PASSO 2,54
..	ZPTJUMPER2.5	JUMPER PASSO 2.54mm
T.P.	ZPA1F	PIN FEMMINA DA C.S.

6.8 One-channel CARD receiver component list

NOMECOMP	CODCOMP	DESCRCOMP
	YRSXRADO1US0	Y XRADO RICEVITORE SCHEDA 1CH
CS	ZAD1037	CIRC.STAMP. DOPPIO LATO 1037AB
R1	ZBA21J102	RESIST.0805 1/8W 5% 1 KOhm
R2	ZBA21J333	RESIST.0805 1/8W 5% 33 KOhm
R3	ZBA21J333	RESIST.0805 1/8W 5% 33 KOhm
R4	ZBA21J223	RESIST.0805 1/8W 5% 22 KOhm
R5	ZBA21J123	RESIST.0805 1/8W 5% 12 KOhm
R6	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R7	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R8	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R9	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R11	ZBA21J104	RESIST.0805 1/8W 5% 100 KOhm
R12	ZBA21J472	RESIST.0805 1/8W 5% 4.7 KOhm
R13	ZBA21J473	RESIST.0805 1/8W 5% 47 KOhm
R14	ZBA21J473	RESIST.0805 1/8W 5% 47 KOhm
R15	ZBA21J183	RESIST.0805 1/8W 5% 18KOhm
R17	ZBA21J102	RESIST.0805 1/8W 5% 1 KOhm
R18	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R19	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R20	ZBA31J680	RESIST.1206 1/8W 5% 68 Ohm
R21	ZBB100J121	RESIST.ASS. 1W 5% 120 Ohm
R22	-	
C1	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C2	ZCA100JA21	COND.CER.0805 NPO J 50V 10pF
C3	ZCA471JA21	COND.CER.0805 NPO J 50V 470pF
C4	ZCA2.2CA21	COND.CER.0805 NPO C 50V 2.2pF
C5	ZCA3.3CA21	COND.CER.0805 NPO C 50V 3.3pF
C6	ZCA101JA21	COND.CER.0805 NPO J 50V 100pF
C8	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C9	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C10	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C11	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C12	ZCA151JA21	COND.CER.0805 NPO J 50V 150pF
C13	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C15	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C16	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C17	ZCA221JA21	COND.CER.0805 NPO J 50V 220pF
C18	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C19	ZCA680JA21	COND.CER.0805 NPO J 50V 68pF
C20	-	
C21	ZCA100JA21	COND.CER.0805 NPO J 50V 10pF
C22	ZCA8.2CA21	COND.CER.0805 NPO C 50V 8.2pF
C23	ZCA474KD21	COND CERAMICO SMT 0805 470nF
C24	ZCA221JA21	COND.CER.0805 NPO J 50V 220pF
C25	ZCA471JA21	COND.CER.0805 NPO J 50V 470pF
C26	ZCA330JA21	COND.CER.0805 NPO J 50V 33pF
C27	ZCA330JA21	COND.CER.0805 NPO J 50V 33pF
C28	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C29	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C30	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C32	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF

C33	ZCA100JA21	COND.CER.0805 NPO J 50V 10pF
C34	ZCA104KD31	COND.CER.1206 X7R K 50V 100nF
C35	ZEA103J10005	COND.SCAT.MKT 10nF 100V J P5
C36	-	
C37	ZCA105ZC21	COND.CER. 0805 Y5V 1uF 16V
C38	ZCA101JA21	COND.CER.0805 NPO J 50V 100pF
CE1	ZDD221M3505	COND.EL.220uF 35V M P5 10x12.5
CE2	ZDA470M35	COND.EL.SMT 47uF 35V M 6.3x6.3
CE3	ZDA220M16	COND.EL.SMT 22uF 16V M 5x5 WX
CE4	ZDA100M16	COND.EL.SMT 10uF 16V M 4x5 WX
L1	ZMD.68M32	INDUTTANZA SMT 0.68uH 3,2x2,5M
L6	ZMD1.0K32	INDUTTANZA SMT 1.0uH 3.2X2.5 K
L4	ZMD022K32	INDUTTANZA SMT 22nH K MURATA
L5	ZMD022K32	INDUTTANZA SMT 22nH K MURATA
L8	ZMD010K32	INDUTTANZA SMT 10nH K MURATA
D1	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D2	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D3	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D4	ZHL23LTL907NA	DIODO LED SOT23 ROSSO NASTRATO
D7	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D8	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D9	ZHABB619	DIODO VARICAP SMT BB619
D6	ZHA42M5	DIODO SMT M5 600V 1A
T1	ZFA23S852T	TRANSISTOR SOT23 S852T TFK
T2	ZFA23S852T	TRANSISTOR SOT23 S852T TFK
T3	ZFA23BC817-25	TRANSISTOR SMT SOT 23 BC817-25
I1	ZGL78L05	STAB. SMT 78L05F 5V 150mA
IC1	ZGANM24C16EM8	CIRC.INT. NM24C16EM8 NATIONAL
IC2	ZGAMC33064	CIRC.INT. SMT MC33064D-5 (SO8)
IC3	ZGAKESRX01	CIRC. INT. SMT KESRX01
IC4	ZGAPIC16C58A	MICROPR.SMT PIC16C58A-04I/SO
Z2	ZHT005SMT	ZENAMIC 5 VOLT SMT
Q1	ZIB6.775	QUARZO HC59 6.775MHz
P1	ZLIB3S.1002P	TASTO SMT B3S.1002P OMRON
P2	ZLIB3S.1002P	TASTO SMT B3S.1002P OMRON
RL1	ZLRS1C09	RELE SUBMIN. 1 SCAMBIO 9V
M2	ZPM02	MORSETTIERA 2 POLI PASSO 5
J1	-	
J2	ZPA02M	PIN STRIP MASCHIO 2 PINS
..	ZPTJUMPER2.5	JUMPER PASSO 2.54mm
J3	ZPA001636838	CONN.FEMMINA 10 VIE TIPO STRIP
T.P.	ZPA1F	PIN FEMMINA DA C.S.

6.9 Two-channel CARD receiver component list

NOMECOMP	CODCOMP	DESCRCOMP
	YRSXRADO2US0	Y XRADO RICEVITORE SCHEDA 2CH
CS	ZAD1037	CIRC.STAMP. DOPPIO LATO 1037AB
R1	ZBA21J102	RESIST.0805 1/8W 5% 1 KOhm
R2	ZBA21J333	RESIST.0805 1/8W 5% 33 KOhm
R3	ZBA21J333	RESIST.0805 1/8W 5% 33 KOhm
R4	ZBA21J223	RESIST.0805 1/8W 5% 22 KOhm
R5	ZBA21J123	RESIST.0805 1/8W 5% 12 KOhm
R6	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R7	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R8	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R9	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R10	ZBA21J472	RESIST.0805 1/8W 5% 4.7 KOhm
R11	ZBA21J104	RESIST.0805 1/8W 5% 100 KOhm
R12	ZBA21J472	RESIST.0805 1/8W 5% 4.7 KOhm
R13	ZBA21J473	RESIST.0805 1/8W 5% 47 KOhm
R14	ZBA21J473	RESIST.0805 1/8W 5% 47 KOhm
R15	ZBA21J183	RESIST.0805 1/8W 5% 18KOhm
R17	ZBA21J102	RESIST.0805 1/8W 5% 1 KOhm
R18	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R19	ZBA21J103	RESIST.0805 1/8W 5% 10 KOhm
R20	ZBA31J680	RESIST.1206 1/8W 5% 68 Ohm
R21	ZBB100J121	RESIST.ASS. 1W 5% 120 Ohm
R22	-	
C1	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C2	ZCA100JA21	COND.CER.0805 NPO J 50V 10pF
C3	ZCA471JA21	COND.CER.0805 NPO J 50V 470pF
C4	ZCA2.2CA21	COND.CER.0805 NPO C 50V 2.2pF
C5	ZCA3.3CA21	COND.CER.0805 NPO C 50V 3.3pF
C6	ZCA101JA21	COND.CER.0805 NPO J 50V 100pF
C8	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C9	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C10	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C11	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C12	ZCA151JA21	COND.CER.0805 NPO J 50V 150pF
C13	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C15	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C16	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C17	ZCA221JA21	COND.CER.0805 NPO J 50V 220pF
C18	ZCA102KD21	COND.CER.0805 X7R K 50V 1nF
C19	ZCA680JA21	COND.CER.0805 NPO J 50V 68pF
C20	-	
C21	ZCA100JA21	COND.CER.0805 NPO J 50V 10pF
C22	ZCA8.2CA21	COND.CER.0805 NPO C 50V 8.2pF
C23	ZCA474KD21	COND CERAMICO SMT 0805 470nF
C24	ZCA221JA21	COND.CER.0805 NPO J 50V 220pF
C25	ZCA471JA21	COND.CER.0805 NPO J 50V 470pF
C26	ZCA330JA21	COND.CER.0805 NPO J 50V 33pF
C27	ZCA330JA21	COND.CER.0805 NPO J 50V 33pF
C28	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C29	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C30	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF

C32	ZCA104MD21	COND.CER.0805 X7R M 25V 100nF
C33	ZCA100JA21	COND.CER.0805 NPO J 50V 10pF
C34	ZCA104KD31	COND.CER.1206 X7R K 50V 100nF
C35	ZEA103J10005	COND.SCAT.MKT 10nF 100V J P5
C36	-	
C37	ZCA105ZC21	COND.CER. 0805 Y5V 1uF 16V
C38	ZCA101JA21	COND.CER.0805 NPO J 50V 100pF
CE1	ZDD221M3505	COND.EL.220uF 35V M P5 10x12.5
CE2	ZDA470M35	COND.EL.SMT 47uF 35V M 6.3x6.3
CE3	ZDA220M16	COND.EL.SMT 22uF 16V M 5x5 WX
CE4	ZDA100M16	COND.EL.SMT 10uF 16V M 4x5 WX
L1	ZMD.68M32	INDUTTANZA SMT 0.68uH 3,2x2,5M
L6	ZMD1.0K32	INDUTTANZA SMT 1.0uH 3.2X2.5 K
L4	ZMD022K32	INDUTTANZA SMT 22nH K MURATA
L5	ZMD022K32	INDUTTANZA SMT 22nH K MURATA
L8	ZMD010K32	INDUTTANZA SMT 10nH K MURATA
D1	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D2	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D3	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D4	ZHL23LTL907NA	DIODO LED SOT23 ROSSO NASTRATO
D7	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D8	ZHA23BAV70	DIODO SMT SOT23 BAV 70
D9	ZHABB619	DIODO VARICAP SMT BB619
D6	ZHA42M5	DIODO SMT M5 600V 1A
T1	ZFA23S852T	TRANSISTOR SOT23 S852T TFK
T2	ZFA23S852T	TRANSISTOR SOT23 S852T TFK
T3	ZFA23BC817-25	TRANSISTOR SMT SOT 23 BC817-25
T4	ZFA23BC817-25	TRANSISTOR SMT SOT 23 BC817-25
I1	ZGL78L05	STAB. SMT 78L05F 5V 150mA
IC1	ZGANM24C16EM8	CIRC.INT. NM24C16EM8 NATIONAL
IC2	ZGAMC33064	CIRC.INT. SMT MC33064D-5 (SO8)
IC3	ZGAKESRX01	CIRC. INT. SMT KESRX01
IC4	ZGAPIC16C58A	MICROPR.SMT PIC16C58A-04I/SO
Z2	ZHT005SMT	ZENAMIC 5 VOLT SMT
Q1	ZIB6.775	QUARZO HC59 6.775MHz
P1	ZLIB3S.1002P	TASTO SMT B3S.1002P OMRON
P2	ZLIB3S.1002P	TASTO SMT B3S.1002P OMRON
RL1	ZLRS1C09	RELE SUBMIN. 1 SCAMBIO 9V
RL2	ZLRS1C09	RELE SUBMIN. 1 SCAMBIO 9V
M2	ZPM02	MORSETTIERA 2 POLI PASSO 5
J1	-	
J2	ZPA04M-5,08	PIN 4 VIE PASSO 5,08
J2	ZPA07M	PIN 7 VIE PASSO 2,54
..	ZPTJUMPER2.5	JUMPER PASSO 2.54mm
J3	ZPA001636838	CONN.FEMMINA 10 VIE TIPO STRIP
T.P.	ZPA1F	PIN FEMMINA DA C.S.