

Prepared (also subject responsible if other)		No.		
EAB/RWG/RB Larry Lindström		B5KAKRB1011112-2		
Approved	Checked	Date	Rev	Reference
KI/EAB/RWG/RB (L Lindström)		2003-11-26	A	

Exhibit 10 – Components, Tune Up

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1 2.1033 (c) (10) Function of Active Circuit Devices

1.1 AMPLIFIER PA UNIT KRY 112 82/1

Product
KRY 112 82/1
Revision B

Pos	Prod name/Func des	Product number
7	TRANSISTOR/MRF19030 , RF Power FET	RYN 123 1642/1
9	TRANSISTOR/Transistor RF Power	RYN 123 1654/1

1.1.1 PA PRINTED BOARD ASSEMBLY ROA 128 0713

1.1.1.1 FUNCTION BLOCK DC/DC PA ROZ 104 130/1

Product
ROZ 104 130/1
Revision Z

Pos	Prod name/Func des	Product number
N5000	MICROCIRCUIT/CONTROLLER HOT SWAP NEG. VOLT.	RYT 126 6013/3C
N5001	OPTOCOUPLER/CTR=200-600	RYR 351 210/2
N5002	OPTOCOUPLER/CTR=200-600	RYR 351 210/2
N5100	MICROCIRCUIT/REG LIN+ 3.3V 200mA	RYT 113 090/2C
N5101	MICROCIRCUIT/PWM 5.0V +/-1.5% 1MHz	RYT 113 6053/4
N5102	OPTOCOUPLER/CTR=200-600	RYR 351 210/2
N5103	MICROCIRCUIT/LM431 ADJ REGULATOR	RYT 113 008/3C
N5200	MICROCIRCUIT/REG SW- ADJ IN=5.5V-60V 1.5A	RYT 113 6363/1
N5201	MICROCIRCUIT/Triple-Voltage uP Supervisory	RYT 113 291/C
N5300	MICROCIRCUIT/LINEAR CONTROLLER	RYT 113 6355/1
N5401	MICROCIRCUIT/10 Bit 4-channel A/D w/ temp s	RYT 120 6033/2C
N5500	OPTOCOUPLER/CTR=200-600	RYR 351 210/2
N5501	MICROCIRCUIT/LM431 ADJ REGULATOR	RYT 113 008/3C
N5502	MICROCIRCUIT/REG LIN+ 5.0V 50mA 0.225V	RYT 113 6057/1
N5503	MICROCIRCUIT/OSCILLATOR 1 to 30MHz	RYT 108 6018/1
N5504	MICROCIRCUIT/74'4017 HC SOP16 DECADE J:SON	RYT 306 6001/C
N5505	MICROCIRCUIT/74'08 HC SOP14 4X2 AND	RYT 304 0008/C
N5506	MICROCIRCUIT/COMP 2.7V 50ns OPEN DRAIN	RYT 101 6342/1
N5600	MICROCIRCUIT/PWM	RYT 113 476/C
N5601	MICROCIRCUIT/COMP 2.7V 50ns OPEN DRAIN	RYT 101 6342/1
N5602	MICROCIRCUIT/OPAMP 3V OUT=R/R 130MHz	RYT 101 6343/1

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N5700	MICROCIRCUIT/PWM	RYT 113 476/C
N5701	MICROCIRCUIT/COMP 2.7V 50ns OPEN DRAIN	RYT 101 6342/1
N5702	MICROCIRCUIT/OPAMP 3V OUT=R/R 130MHz	RYT 101 6343/1
N5800	MICROCIRCUIT/PWM	RYT 113 476/C
N5801	MICROCIRCUIT/COMP 2.7V 50ns OPEN DRAIN	RYT 101 6342/1
N5802	MICROCIRCUIT/OPAMP 3V OUT=R/R 130MHz	RYT 101 6343/1
T5100	TRANSFORMER/FORWARD	REG 527 2006
T5101	TRANSFORMER/Current Transformer 4900uH	REG 135 79/1
T5600	TRANSFORMER/Planar E18, 48/28V 4,5A	REG 272 2001/1
T5601	TRANSFORMER/Current Transformer 1400uH	REG 135 79/2
T5602	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5603	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5604	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5605	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5700	TRANSFORMER/Planar E18, 48/28V 4,5A	REG 272 2001/1
T5701	TRANSFORMER/Current Transformer 1400uH	REG 135 79/2
T5702	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5703	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5704	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5705	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5800	TRANSFORMER/Planar E18, 48/28V 4,5A	REG 272 2001/1
T5801	TRANSFORMER/Current Transformer 1400uH	REG 135 79/2
T5802	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5803	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5804	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5805	TRANSFORMER/FET Driver Transformer	REG 604 08/1
V5000	TRANSIENTPROTECTOR/TVS ZEN bidir 64V SMC 1.5kW(10	RKZ 223 606/4
V5001	TRANSISTOR/NFET 100V 140A Max247 with pre	RYN 123 123/2
V5003	TRANSISTOR/NFET SS 60V 100mA SOT23 7.5ohm	RYN 123 614/1
V5100	RECTIFIER/REC SCH x2 60V 2x15A D2PAK com	RKZ 323 6046/1
V5102	RECTIFIER/REC 200V 1A SMA 35ns	RKZ 123 05/2
V5103	TRANSISTOR/Nfet 200V 24A D2PAK 0.1	RYN 123 272
V5104	DIODE/SWI x2 70V 200mA SOT23 com.cat	RKZ 123 03/3
V5106	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5170	RECTIFIER/REC SCH x2 60V 2x15A D2PAK com	RKZ 323 6046/1
V5200	RECTIFIER/REC SCH 100V 1A SMB	RKZ 323 27/1
V5201	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5203	RECTIFIER/REC 200V 1A SMA 35ns	RKZ 123 05/2
V5204	RECTIFIER/REC 200V 1A SMA 35ns	RKZ 123 05/2
V5205	RECTIFIER/REC 200V 1A SMA 35ns	RKZ 123 05/2
V5300	TRANSISTOR/PFET 55V 74A D2PAK 20mohm(10V)	RYN 122 670/2
V5301	TRANSISTOR/PNP 80V 1A SOT223 hFE63-160(15	RYN 120 615/1
V5302	ZENERDIODE/ZEN 15.0V 5% 0.2W SOT23	RKZ 223 01/20
V5303	DIODE/SWI x2 70V 200mA SOT23 com.cat	RKZ 123 03/3
V5400	DIODE/SWI x2 70V 200mA SOT23 com.cat	RKZ 123 03/3

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V5401	DIODE/SWI x2 70V 200mA SOT23 com.cat	RKZ 123 03/3
V5501	ZENERDIODE/ZEN 3.9V 5% 0.2W SOT23	RKZ 223 01/6
V5600	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5601	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5602	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5603	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5604	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5605	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5606	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5607	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5609	DIODE/SWI SCH x2 30V 100mA SOT23 ser	RKZ 123 601/2
V5610	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5611	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5612	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5613	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5614	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5615	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5616	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5617	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5618	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5619	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5620	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5621	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5622	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5623	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5624	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5625	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5626	TRANSISTOR/MOSFET P CH, 60V, SOT223	RYN 122 210
V5627	TRANSISTOR/MOSFET N CH, 60V, SOT223	RYN 123 244
V5628	TRANSISTOR/MOSFET P CH, 60V, SOT223	RYN 122 210
V5629	TRANSISTOR/MOSFET N CH, 60V, SOT223	RYN 123 244
V5630	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5631	DIODE/SWI SCH x2 30V 100mA SOT23 ser	RKZ 123 601/2
V5700	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5701	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5702	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5703	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5704	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5705	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5706	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5707	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5709	DIODE/SWI SCH x2 30V 100mA SOT23 ser	RKZ 123 601/2
V5710	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5711	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5712	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1

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V5713	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5714	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5715	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5716	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5717	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5718	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5719	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5720	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5721	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5722	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5723	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5724	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5725	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5726	TRANSISTOR/MOSFET P CH, 60V, SOT223	RYN 122 210
V5727	TRANSISTOR/MOSFET N CH, 60V, SOT223	RYN 123 244
V5728	TRANSISTOR/MOSFET P CH, 60V, SOT223	RYN 122 210
V5729	TRANSISTOR/MOSFET N CH, 60V, SOT223	RYN 123 244
V5730	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5731	DIODE/SWI SCH x2 30V 100mA SOT23 ser	RKZ 123 601/2
V5800	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5801	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5802	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5803	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5804	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5805	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5806	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5807	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5809	DIODE/SWI SCH x2 30V 100mA SOT23 ser	RKZ 123 601/2
V5810	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5811	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5812	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5813	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5814	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5815	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5816	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5817	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5818	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5819	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5820	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5821	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5822	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5823	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5824	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5825	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5826	TRANSISTOR/MOSFET P CH, 60V, SOT223	RYN 122 210

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V5827	TRANSISTOR/MOSFET N CH, 60V, SOT223	RYN 123 244
V5828	TRANSISTOR/MOSFET P CH, 60V, SOT223	RYN 122 210
V5829	TRANSISTOR/MOSFET N CH, 60V, SOT223	RYN 123 244
V5830	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5831	DIODE/SWI SCH x2 30V 100mA SOT23 ser	RKZ 123 601/2

1.1.1.2 FUNCTION BLOCK PA BOARD ROZ 104 249/1

Product
ROZ 104 249/1
Revision A

Pos	Prod name/Func des	Product number
D2501	MICROCIRCUIT/Current Sense Ampl.	RYT 101 142/2C
D2502	MICROCIRCUIT/Current Sense Ampl.	RYT 101 142/2C
D2503	MICROCIRCUIT/Current Sense Ampl.	RYT 101 142/2C
D2504	MICROCIRCUIT/Current Sense Ampl.	RYT 101 142/2C
D2505	MICROCIRCUIT/10 Bit 4-channel A/D w/ temp s	RYT 120 6033/2C
D2601	MICROCIRCUIT/DAC 10Bit 2.7-5.5V	RYT 120 6125/1
D2602	MICROCIRCUIT/DAC 10Bit 2.7-5.5V	RYT 120 6125/1
D2603	MICROCIRCUIT/DAC 10Bit 2.7-5.5V	RYT 120 6125/1
D2604	MICROCIRCUIT/DAC 10Bit 2.7-5.5V	RYT 120 6125/1
D2605	MICROCIRCUIT/100 mA 5V, Low Noise LDO	RYT 113 289/C
D2701	MICROCIRCUIT/SMBus/I2C accelerator SOT-23/5	RYT 109 6222/1
D2702	MICROCIRCUIT/EEPROM I2C 1K8 2.7V-5.5V I	RYT 118 6080/4
D2801	CIRCULATOR/Circulator 1890 to 2030 MHz	KRY 101 1917/1
D3001	MICROCIRCUIT/Attenuator 5-bit, 0.5dB LSB	RYT 115 6042/1
D3003	ATTENUATOR/3DB SMD,TEMP. COEFF.-0.007	UMF 101 181/37T
D3501	MICROCIRCUIT/Current Sense Ampl.	RYT 101 142/2C
D3502	MICROCIRCUIT/Current Sense Ampl.	RYT 101 142/2C
D3503	MICROCIRCUIT/Current Sense Ampl.	RYT 101 142/2C
D3504	MICROCIRCUIT/10 Bit 4-channel A/D w/ temp s	RYT 120 6033/2C
D3505	MICROCIRCUIT/I2C I/O EXPANDER 8-BIT SSOP20	RYT 109 6048/3C
D3506	MICROCIRCUIT/Current Sense Ampl.	RYT 101 142/2C
D3601	MICROCIRCUIT/DAC 10Bit 2.7-5.5V	RYT 120 6125/2
D3602	MICROCIRCUIT/DAC 10Bit 2.7-5.5V	RYT 120 6125/2
D3603	MICROCIRCUIT/DAC 10Bit 2.7-5.5V	RYT 120 6125/2
D3604	MICROCIRCUIT/100 mA 5V, Low Noise LDO	RYT 113 289/C
D4001	MICROCIRCUIT/Attenuator 5-bit, 0.5dB LSB	RYT 115 6042/1
D4003	ATTENUATOR/4DB SMD,TEMP. COEFF.-0.009	UMF 101 181/49NT
D4501	MICROCIRCUIT/Current Sense Ampl.	RYT 101 142/2C
D4502	MICROCIRCUIT/Current Sense Ampl.	RYT 101 142/2C

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D4503	MICROCIRCUIT/Current Sense Ampl.	RYT 101 142/2C
D4504	MICROCIRCUIT/10 Bit 4-channel A/D w/ temp s	RYT 120 6033/2C
D4505	MICROCIRCUIT/I2C I/O EXPANDER 8-BIT SSOP20	RYT 109 6048/3C
D4506	MICROCIRCUIT/Current Sense Ampl.	RYT 101 142/2C
D4601	MICROCIRCUIT/100 mA 5V, Low Noise LDO	RYT 113 289/C
D4602	MICROCIRCUIT/DAC 10Bit 2.7-5.5V	RYT 120 6125/2
D4603	MICROCIRCUIT/DAC 10Bit 2.7-5.5V	RYT 120 6125/2
D4604	MICROCIRCUIT/DAC 10Bit 2.7-5.5V	RYT 120 6125/2
L2151	FERRITE/Ferrite Bead	REG 704 20/2
L2251	FERRITE/Ferrite Bead	REG 704 20/2
L2351	FERRITE/Ferrite Bead	REG 704 20/2
L2451	FERRITE/Ferrite Bead	REG 704 20/2
L3002	INDUCTANCE/15NH 5% 0.7A 0603	REG 704 1122/15
L3004	INDUCTANCE/15NH 5% 0.7A 0603	REG 704 1122/15
L3006	INDUCTANCE/15NH 5% 0.7A 0603	REG 704 1122/15
L3141	FERRITE/FERRITEe Bead	REG 704 20/1
L3151	FERRITE/FERRITEe Bead	REG 704 20/1
L3251	FERRITE/FERRITEe Bead	REG 704 20/1
L3351	FERRITE/FERRITEe Bead	REG 704 20/1
L4002	INDUCTANCE/15NH 5% 0.7A 0603	REG 704 1122/15
L4004	INDUCTANCE/15NH 5% 0.7A 0603	REG 704 1122/15
L4006	INDUCTANCE/15NH 5% 0.7A 0603	REG 704 1122/15
L4151	FERRITE/FERRITEe Bead	REG 704 20/1
L4351	FERRITE/FERRITEe Bead	REG 704 20/1
V2001	TRANSISTOR/Transistor RF Power	RYN 123 1654/1
V2002	TRANSISTOR/Transistor RF Power	RYN 123 1654/1
V2601	TRANSISTOR/NFET SS 60V 100mA SOT23 7.5ohm	RYN 123 614/1
V2602	TRANSISTOR/NFET SS 60V 100mA SOT23 7.5ohm	RYN 123 614/1
V2603	TRANSISTOR/NFET SS 60V 100mA SOT23 7.5ohm	RYN 123 614/1
V2604	TRANSISTOR/NFET SS 60V 100mA SOT23 7.5ohm	RYN 123 614/1
V2605	TRANSISTOR/PFET SS 60V 120mA SOT23 25ohm(RYN 122 606/1
V2701	TRANSISTOR/NFET SS 60V 100mA SOT23 7.5ohm	RYN 123 614/1
V3001	MICROCIRCUIT/GaAs HBT Amplifier. SXA-389	RYT 101 6515/2
V3002	MICROCIRCUIT/GaAs HBT Amplifier. SXA-389	RYT 101 6515/2
V3003	MICROCIRCUIT/GaAs HBT Amplifier. SXA-389	RYT 101 6515/2
V3401	TRANSISTOR/MRF19030 , RF Power FET	RYN 123 1642/1
V3402	TRANSISTOR/MRF19030 , RF Power FET	RYN 123 1642/1
V3403	TRANSISTOR/MRF19030 , RF Power FET	RYN 123 1642/1
V3601	TRANSISTOR/NFET SS 60V 100mA SOT23 7.5ohm	RYN 123 614/1
V3602	TRANSISTOR/NFET SS 60V 100mA SOT23 7.5ohm	RYN 123 614/1
V3603	TRANSISTOR/NFET SS 60V 100mA SOT23 7.5ohm	RYN 123 614/1
V3604	TRANSISTOR/PFET SS 60V 120mA SOT23 25ohm(RYN 122 606/1
V4001	MICROCIRCUIT/GaAs HBT Amplifier. SXA-389	RYT 101 6515/2
V4002	MICROCIRCUIT/GaAs HBT Amplifier. SXA-389	RYT 101 6515/2
V4003	MICROCIRCUIT/GaAs HBT Amplifier. SXA-389	RYT 101 6515/2

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Approved	Checked	Date	Rev	Reference
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V4401	TRANSISTOR/MRF19030 , RF Power FET	RYN 123 1642/1
V4402	TRANSISTOR/MRF19030 , RF Power FET	RYN 123 1642/1
V4403	TRANSISTOR/MRF19030 , RF Power FET	RYN 123 1642/1
V4601	TRANSISTOR/NFET SS 60V 100mA SOT23 7.5ohm	RYN 123 614/1
V4602	TRANSISTOR/NFET SS 60V 100mA SOT23 7.5ohm	RYN 123 614/1
V4603	TRANSISTOR/NFET SS 60V 100mA SOT23 7.5ohm	RYN 123 614/1
V4604	TRANSISTOR/PFET SS 60V 120mA SOT23 25ohm(RYN 122 606/1
W2001	DIRECTION COUPLER/3DB, 90 DEG	UND 103 46/1
W2002	DIRECTION COUPLER/2A1306-3 Hybrid Coupler SMT Xi	UND 106 03/1
W3001	DIRECTION COUPLER/3DB COUPLER 1700-2000MHZ	UND 106 083/1
W3002	DIRECTION COUPLER/3DB COUPLER 1700-2000MHZ	UND 106 083/1
W3401	DIRECTION COUPLER/3DB, 90 DEG	UND 103 46/1
W3402	DIRECTION COUPLER/3DB, 90 DEG	UND 103 46/1
W4001	DIRECTION COUPLER/3DB COUPLER 1700-2000MHZ	UND 106 083/1
W4002	DIRECTION COUPLER/3DB COUPLER 1700-2000MHZ	UND 106 083/1
W4401	DIRECTION COUPLER/3DB, 90 DEG	UND 103 46/1
W4402	DIRECTION COUPLER/3DB, 90 DEG	UND 103 46/1

1.2 RADIO CONTROL UNIT KRY 101 1918/1

1.2.1 RAXCON PRINTED BOARD ASSEMBLY ROA 128 0721

1.2.1.1 FUNCTION BLOCK DC/DC PA ROZ 104 130/1

Product
ROZ 104 130/1
Revision L

Pos	Prod name/Func des	Product number
L5000	INDUCTANCE/2.7uH 15.5A 1.6mOhm SMD	REG 724 5130/2
L5001	INDUCTANCE/2.7uH 15.5A 1.6mOhm SMD	REG 724 5130/2
L5100	INDUCTANCE/15uH 20% 3.1A SMD13.0x9.4x5.5	REG 603 202/15
L5101	INDUCTANCE/15uH 20% 3.1A SMD13.0x9.4x5.5	REG 603 202/15
L5102	INDUCTANCE/7.2uH 8.6A 3.3mOhm SMD	REG 724 5130/4
L5103	INDUCTANCE/4.6uH 7.3A 6.5mOhm	REG 724 5084/46
L5105	INDUCTANCE/15uH 10% 2220 0.58A	REG 704 242/15
L5200	INDUCTANCE/15uH 10% 2220 0.58A	REG 704 242/15
L5201	INDUCTANCE/47UH 20% 1.4A 0.1ohm shielded	REG 724 102/47
L5500	INDUCTANCE/15uH 10% 2220 0.58A	REG 704 242/15
L5600	INDUCTANCE/10.2uH 4.0A 13.3mOhm	REG 724 5085/102
L5601	INDUCTANCE/15uH 10% 2220 0.58A	REG 704 242/15
L5602	INDUCTANCE/15uH 10% 2220 0.58A	REG 704 242/15

Prepared (also subject responsible if other)		No.		
EAB/RWG/RB Larry Lindström		B5KAKRB1011112-2		
Approved	Checked	Date	Rev	Reference
KI/EAB/RWG/RB (L Lindström)		2003-11-26	A	

L5700	INDUCTANCE/10.2uH 4.0A 13.3mOhm	REG 724 5085/102
L5701	INDUCTANCE/15uH 10% 2220 0.58A	REG 704 242/15
L5702	INDUCTANCE/15uH 10% 2220 0.58A	REG 704 242/15
L5800	INDUCTANCE/10.2uH 4.0A 13.3mOhm	REG 724 5085/102
L5801	INDUCTANCE/15uH 10% 2220 0.58A	REG 704 242/15
L5802	INDUCTANCE/15uH 10% 2220 0.58A	REG 704 242/15
N5000	MICROCIRCUIT/CONTROLLER HOT SWAP NEG. VOLT.	RYT 126 6013/3C
N5001	OPTOCOUPLER/CTR=200-600	RYR 351 210/2
N5002	OPTOCOUPLER/CTR=200-600	RYR 351 210/2
N5100	MICROCIRCUIT/REG LIN+ 3.3V 200mA	RYT 113 090/2C
N5101	MICROCIRCUIT/PWM 5.0V +/-1.5% 1MHz	RYT 113 6053/4
N5102	OPTOCOUPLER/CTR=200-600	RYR 351 210/2
N5103	MICROCIRCUIT/LM431 ADJ REGULATOR	RYT 113 008/3C
N5200	MICROCIRCUIT/REG SW- ADJ IN=5.5V-60V 1.5A	RYT 113 6363/1
N5201	MICROCIRCUIT/Triple-Voltage uP Supervisory	RYT 113 291/C
N5300	MICROCIRCUIT/LINEAR CONTROLLER	RYT 113 6355/1
N5401	MICROCIRCUIT/10 Bit 4-channel A/D w/ temp s	RYT 120 6033/2C
N5500	OPTOCOUPLER/CTR=200-600	RYR 351 210/2
N5501	MICROCIRCUIT/LM431 ADJ REGULATOR	RYT 113 008/3C
N5502	MICROCIRCUIT/REG LIN+ 5.0V 50mA 0.225V	RYT 113 6057/1
N5503	MICROCIRCUIT/OSCILLATOR 1 to 30MHz	RYT 108 6018/1
N5504	MICROCIRCUIT/74'4017 HC SOP16 DECADE J:SON	RYT 306 6001/C
N5505	MICROCIRCUIT/74'08 HC SOP14 4X2 AND	RYT 304 0008/C
N5600	MICROCIRCUIT/PWM	RYT 113 476/C
N5601	MICROCIRCUIT/COMP 2.7V 50ns OPEN DRAIN	RYT 101 6342/1
N5602	MICROCIRCUIT/OPAMP 3V OUT=R/R 130MHz	RYT 101 6343/1
N5700	MICROCIRCUIT/PWM	RYT 113 476/C
N5701	MICROCIRCUIT/COMP 2.7V 50ns OPEN DRAIN	RYT 101 6342/1
N5702	MICROCIRCUIT/OPAMP 3V OUT=R/R 130MHz	RYT 101 6343/1
N5800	MICROCIRCUIT/PWM	RYT 113 476/C
N5801	MICROCIRCUIT/COMP 2.7V 50ns OPEN DRAIN	RYT 101 6342/1
N5802	MICROCIRCUIT/OPAMP 3V OUT=R/R 130MHz	RYT 101 6343/1
T5100	TRANSFORMER/FORWARD	REG 527 2006
T5101	TRANSFORMER/Current Transformer 4900uH	REG 135 79/1
T5600	TRANSFORMER/Planar E18, 48/28V 4,5A	REG 272 2001/1
T5601	TRANSFORMER/Current Transformer 1400uH	REG 135 79/2
T5602	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5603	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5604	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5605	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5700	TRANSFORMER/Planar E18, 48/28V 4,5A	REG 272 2001/1
T5701	TRANSFORMER/Current Transformer 1400uH	REG 135 79/2
T5702	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5703	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5704	TRANSFORMER/FET Driver Transformer	REG 604 08/1

Prepared (also subject responsible if other)		No.		
EAB/RWG/RB Larry Lindström		B5KAKRB1011112-2		
Approved	Checked	Date	Rev	Reference
KI/EAB/RWG/RB (L Lindström)		2003-11-26	A	

T5705	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5800	TRANSFORMER/Planar E18, 48/28V 4,5A	REG 272 2001/1
T5801	TRANSFORMER/Current Transformer 1400uH	REG 135 79/2
T5802	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5803	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5804	TRANSFORMER/FET Driver Transformer	REG 604 08/1
T5805	TRANSFORMER/FET Driver Transformer	REG 604 08/1
V5000	TRANSIENTPROTECTION/TVS ZEN bidir 64V SMC 1.5kW(10	RKZ 223 606/4
V5001	TRANSISTOR/MOSFET, POWER 100V 75A D2PAK	RYN 123 6049/1
V5002	TRANSISTOR/MOSFET, POWER 100V 75A D2PAK	RYN 123 6049/1
V5003	TRANSISTOR/NFET SS 60V 100mA SOT23 7.5ohm	RYN 123 614/1
V5100	RECTIFIER/REC SCH x2 60V 2x15A D2PAK com	RKZ 323 6046/1
V5102	RECTIFIER/REC 200V 1A SMA 35ns	RKZ 123 05/2
V5103	TRANSISTOR/Nfet 200V 24A D2PAK 0.1	RYN 123 272
V5104	DIODE/SWI x2 70V 200mA SOT23 com.cat	RKZ 123 03/3
V5106	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5170	RECTIFIER/REC SCH x2 60V 2x15A D2PAK com	RKZ 323 6046/1
V5200	DIODE/REC SCH 100V 1A SMA 0.85V(1A)	RKZ 323 488/1
V5201	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5203	MOTSTÅND/0ohm 2010 0.5W	REP 607 440
V5300	TRANSISTOR/PFET 55V 74A D2PAK 20mohm(10V)	RYN 122 670/2
V5301	TRANSISTOR/PNP 80V 1A SOT223 hFE63-160(15	RYN 120 615/1
V5302	ZENERDIODE/ZEN 15.0V 5% 0.2W SOT23	RKZ 223 01/20
V5303	DIODE/SWI x2 70V 200mA SOT23 com.cat	RKZ 123 03/3
V5400	DIODE/SWI x2 70V 200mA SOT23 com.cat	RKZ 123 03/3
V5401	DIODE/SWI x2 70V 200mA SOT23 com.cat	RKZ 123 03/3
V5600	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5601	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5602	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5603	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5604	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5605	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5606	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5607	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5609	DIODE/SWI SCH x2 30V 100mA SOT23 ser	RKZ 123 601/2
V5610	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5611	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5612	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5613	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5614	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5615	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5616	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5617	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5618	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5619	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1

Prepared (also subject responsible if other)		No.		
EAB/RWG/RB Larry Lindström		B5KAKRB1011112-2		
Approved	Checked	Date	Rev	Reference
KI/EAB/RWG/RB (L Lindström)		2003-11-26	A	

V5620	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5621	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5622	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5623	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5624	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5625	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5626	TRANSISTOR/MOSFET P CH, 60V, SOT223	RYN 122 210
V5627	TRANSISTOR/MOSFET N CH, 60V, SOT223	RYN 123 244
V5628	TRANSISTOR/MOSFET P CH, 60V, SOT223	RYN 122 210
V5629	TRANSISTOR/MOSFET N CH, 60V, SOT223	RYN 123 244
V5630	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5700	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5701	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5702	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5703	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5704	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5705	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5706	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5707	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5709	DIODE/SWI SCH x2 30V 100mA SOT23 ser	RKZ 123 601/2
V5710	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5711	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5712	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5713	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5714	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5715	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5716	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5717	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5718	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5719	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5720	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5721	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5722	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5723	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5724	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5725	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5726	TRANSISTOR/MOSFET P CH, 60V, SOT223	RYN 122 210
V5727	TRANSISTOR/MOSFET N CH, 60V, SOT223	RYN 123 244
V5728	TRANSISTOR/MOSFET P CH, 60V, SOT223	RYN 122 210
V5729	TRANSISTOR/MOSFET N CH, 60V, SOT223	RYN 123 244
V5730	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5800	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5801	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5802	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5803	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1

Prepared (also subject responsible if other)		No.		
EAB/RWG/RB Larry Lindström		B5KAKRB1011112-2		
Approved	Checked	Date	Rev	Reference
KI/EAB/RWG/RB (L Lindström)		2003-11-26	A	

V5804	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5805	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5806	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5807	TRANSISTOR/NFET 100V 6A SO8 26mohm(10V) V	RYN 123 6032/1
V5809	DIODE/SWI SCH x2 30V 100mA SOT23 ser	RKZ 123 601/2
V5810	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5811	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5812	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5813	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5814	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5815	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5816	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5817	DIODE/SWI x2 70V 200mA SOT23 serial	RKZ 123 03/1
V5818	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5819	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5820	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5821	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5822	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5823	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5824	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5825	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1
V5826	TRANSISTOR/MOSFET P CH, 60V, SOT223	RYN 122 210
V5827	TRANSISTOR/MOSFET N CH, 60V, SOT223	RYN 123 244
V5828	TRANSISTOR/MOSFET P CH, 60V, SOT223	RYN 122 210
V5829	TRANSISTOR/MOSFET N CH, 60V, SOT223	RYN 123 244
V5830	TRANSISTOR/PNP SS 60V 600mA SOT23 hFE>100	RYN 120 12/1

1.2.1.2 FUNCTION BLOCK AUMTEX 1911-ROZ 104 155/1

Product
ROZ 104 155/1
Revision G

Pos	Prod name/Func des	Product number
D1	ASIC/AUC	ROP 101 1190/1
D52	MICROCIRCUIT/SUP.V 3.08V +/-2.3% L/HI RESET	RYT 113 6065/7
D53	MICROCIRCUIT/RS485 TRANSC FD x1 3.3V -40 to	RYT 109 6153/2C
D100	MICROCIRCUIT/74'08 HC1G SSOP5-P 1X 2-INP AN	RYT 326 6008/C
D300	MICROCIRCUIT/SDRAM CL=2 4M16 100M 3.3V I	RYT 119 106/4C
D400	MICROCIRCUIT/FLASH TB 2M16 90NS 3.3V I	RYT 118 6152/6
D500	OSCILLATOR/SPXO 19.44MHz +/-30ppm 0 to +70	RTL 201 629/24
D2001	MICROCIRCUIT/Thermal Watchdog 2-Wire,see 13	RYT 124 6018/2

Prepared (also subject responsible if other)		No.		
EAB/RWG/RB Larry Lindström		B5KAKRB1011112-2		
Approved	Checked	Date	Rev	Reference
KI/EAB/RWG/RB (L Lindström)		2003-11-26	A	

D2002	MICROCIRCUIT/74'244 LVC SSOP20 8x BUFFER NO	RYT 331 0244/C
D2003	MICROCIRCUIT/74'125 AHCT1G SSOP5-P-A 1x BUF	RYT 326 6125/3T2C
D2005	MICROCIRCUIT/74'125 AHCT1G SSOP5-P-A 1x BUF	RYT 326 6125/3T2C
D2006	MICROCIRCUIT/74'125 AHCT1G SSOP5-P-A 1x BUF	RYT 326 6125/3T2C
D2007	MICROCIRCUIT/SMBus/I2C accelerator SOT-23/5	RYT 109 6222/1
D2008	MICROCIRCUIT/74'125 LVC,Z1G SSOP5-P-A 1x BU	RYT 326 6125/42C
D2010	MICROCIRCUIT/SMP04ES SAMPLE AND HOLD AMPL	RYT 130 008/C
D2011	MICROCIRCUIT/SWITCH2x2 SPDT 4ohm	RYT 122 6018/1
D2012	MICROCIRCUIT/74'14 Z1G SOT23-5 1X SCHMITT I	RYT 326 6014/41C
D2013	MICROCIRCUIT/74'08 LVC,Z1G SSOP5-P-A 1x 2-I	RYT 326 6008/42C
D2202	MICROCIRCUIT/RS232 TRANSC 2+2 3.3V SSOP20 /	RYT 109 6081/C
D2401	MICROCIRCUIT/74LCX16244 16-BIT BUFFER/LINE	RYT 334 1244/C
D2402	MICROCIRCUIT/D/A CONV 12-BIT 3.3V 8CHAN	RYT 120 6091/1
D2403	MICROCIRCUIT/DSP 320VC5416 120MHz/1.5V	RYT 134 6039/4
D2404	MICROCIRCUIT/74'14 Z1G SOT23-5 1X SCHMITT I	RYT 326 6014/41C
D2406	MICROCIRCUIT/D/A CONV 12-BIT 3.3V 8CHAN	RYT 120 6091/1
D2410	MICROCIRCUIT/10-BIT A/D CONV. 3.3V SERIAL	RYT 120 6092/1
D2411	MICROCIRCUIT/XC2S50E-6 1.8V C=-40/100	RYT 139 073/2C
D2414	MICROCIRCUIT/10-BIT A/D CONV. 3.3V SERIAL	RYT 120 6092/1
D2416	MICROCIRCUIT/REF SHUNT 5.0V 0.2% 100ppm/C 1	RYT 113 481/10
D2417	MICROCIRCUIT/REG.LIN+ 1.5V 300mA 150mV	RYT 113 6370/1
H1	LED/LED yellow 6-20mcd(10mA) sideL	RKZ 433 25/2
H2	LED/LED super-red 6-20mcd(10mA) S	RKZ 433 25/3
H3	LED/LED pure green 3-10mcd(10mA)	RKZ 433 25/4
V2201	TRANSISTOR/NPN SS 30V 100mA SOT323 hFE110	RYN 121 692/1

1.2.1.3 FUNCTION BLOCK RAXCON 1911-ROZ 104 247/1

Product
ROZ 104 247/1
Revision A

Pos	Prod name/Func des	Product number
D1000	MICROCIRCUIT/OPAMP R/R 1.8-23V standard	RYT 101 130/2C
D1002	MICROCIRCUIT/GaAs HBT Amplifier. SXA-389	RYT 101 6515/2
D1003	MICROCIRCUIT/74'04 HCT TSSOP14 6x INVERTER	RYT 310 6008/2C
D1004	MICROCIRCUIT/74'04 HCT TSSOP14 6x INVERTER	RYT 310 6008/2C
D1005	MICROCIRCUIT/SWITCH SPDT 0.5-3GHz GaAs	RYT 122 6026/1
D1006	MICROCIRCUIT/74'04 HCT TSSOP14 6x INVERTER	RYT 310 6008/2C
D1010	MICROCIRCUIT/SWITCH SPDT 0.5-3GHz GaAs	RYT 122 6026/1
D1011	MICROCIRCUIT/SWITCH SPDT 0.5-3GHz GaAs	RYT 122 6026/1
D1012	MICROCIRCUIT/TEMP SENSOR, SOT-23, LM50C	RYT 124 6009/C

Prepared (also subject responsible if other)		No.		
EAB/RWG/RB Larry Lindström		B5KAKRB1011112-2		
Approved	Checked	Date	Rev	Reference
KL/EAB/RWG/RB (L Lindström)		2003-11-26	A	

D1013	MICROCIRCUIT/OPAMP x2 3.3V R/R	RYT 101 6336/1
D1015	MICROCIRCUIT/SWITCH SPDT 0.5-3GHz GaAs	RYT 122 6026/1
D1016	MICROCIRCUIT/SWITCH SPDT 0.5-3GHz GaAs	RYT 122 6026/1
D1060	MICROCIRCUIT/GaAs HBT Amplifier. SXA-389	RYT 101 6515/2
D1120	MICROCIRCUIT/OPAMP 2.2V R/R 10MHz	RYT 101 6316/1
D1121	MICROCIRCUIT/OPAMP R/R 1.8-23V standard	RYT 101 130/2C
D1122	MICROCIRCUIT/OPAMP R/R 1.8-23V standard	RYT 101 130/2C
D1123	MICROCIRCUIT/vector modulator 1.94-2.24 GHz	RYT 101 6478/1
D1180	MICROCIRCUIT/vector modulator 1.94-2.24 GHz	RYT 101 6478/1
D1181	MICROCIRCUIT/DRIVER FOR VECTOR MODULATORS	RYT 101 6511/1
D1183	MICROCIRCUIT/OPAMP x2 3.3V R/R	RYT 101 6336/1
D1240	ASIC/ASIC SALVATORE	ROP 101 610/2
D1242	MICROCIRCUIT/OPAMP R/R 1.8-23V standard	RYT 101 130/2C
D1243	MICROCIRCUIT/OPAMP R/R 1.8-23V standard	RYT 101 130/2C
D1244	MICROCIRCUIT/REF LIN 2.5V +/-0.8% 15mA	RYT 113 6207/1
D1247	DELAY LINE/13.0+/-0.1ns	UMJ 901 02/2
D1300	MICROCIRCUIT/74'04 HCT TSSOP14 6x INVERTER	RYT 310 6008/2C
D1302	MICROCIRCUIT/SWITCH SPDT 0.5-3GHz GaAs	RYT 122 6026/1
D1303	MICROCIRCUIT/OPAMP x4 2.7-5.5V R/R 1MHz	RYT 101 030/5C
D1361	MICROCIRCUIT/OPAMP R/R 1.8-23V standard	RYT 101 130/2C
D1362	MICROCIRCUIT/OPAMP R/R 1.8-23V standard	RYT 101 130/2C
D1363	MICROCIRCUIT/vector modulator 1.94-2.24 GHz	RYT 101 6478/1
D1420	MICROCIRCUIT/vector modulator 1.94-2.24 GHz	RYT 101 6478/1
D1421	MICROCIRCUIT/DRIVER FOR VECTOR MODULATORS	RYT 101 6511/1
D1423	MICROCIRCUIT/OPAMP x2 3.3V R/R	RYT 101 6336/1
D1480	MICROCIRCUIT/OPAMP R/R 1.8-23V standard	RYT 101 130/2C
D1481	DELAY LINE/Delay line11.8ns	UMJ 103 202/01
D1541	MICROCIRCUIT/OPAMP R/R 1.8-23V standard	RYT 101 130/2C
D1542	MICROCIRCUIT/OPAMP R/R 1.8-23V standard	RYT 101 130/2C
D1543	MICROCIRCUIT/vector modulator 1.94-2.24 GHz	RYT 101 6478/1
D1600	DELAY LINE/Delay line 0-750ps	UMJ 103 201/01
D1601	MICROCIRCUIT/74'04 HCT TSSOP14 6x INVERTER	RYT 310 6008/2C
D1602	MICROCIRCUIT/74'04 HCT TSSOP14 6x INVERTER	RYT 310 6008/2C
D1660	MICROCIRCUIT/OPAMP x4 2.7-5.5V R/R 1MHz	RYT 101 030/5C
D1661	MICROCIRCUIT/SWITCH SPDT 0.5-3GHz GaAs	RYT 122 6026/1
D1720	MICROCIRCUIT/AD8313	RYT 101 6976/1
D1721	MICROCIRCUIT/AD8361ARM	RYT 101 6441/1
D1722	MICROCIRCUIT/OPAMP x2 3.3V R/R	RYT 101 6336/1
D1780	MICROCIRCUIT/REG LIN+ 3.2V 150mA	RYT 113 6110/5
D1781	MICROCIRCUIT/	RYT 902 6034/3
D1782	MICROCIRCUIT/AT-108	RYT 115 6035/1
D1783	MICROCIRCUIT/Frequency Mixer	RYT 901 6204/1
D1784	MICROCIRCUIT/74'04 HCT TSSOP14 6x INVERTER	RYT 310 6008/2C
D1786	MICROCIRCUIT/SWITCH SPDT 0.5-3GHz GaAs	RYT 122 6026/1
D1787	MICROCIRCUIT/SWITCH SPDT 0.5-3GHz GaAs	RYT 122 6026/1

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D1840	MICROCIRCUIT/Frequency Mixer	RYT 901 6204/1
D1841	MICROCIRCUIT/SWITCH SPDT 0.5-3GHz GaAs	RYT 122 6026/1
D1842	MICROCIRCUIT/74'04 HCT TSSOP14 6x INVERTER	RYT 310 6008/2C
D1844	MICROCIRCUIT/SWITCH SPDT 0.5-3GHz GaAs	RYT 122 6026/1
D1847	MICROCIRCUIT/REF LIN 2.5V +/-0.8% 15mA	RYT 113 6207/1
D1848	MICROCIRCUIT/MIXER, DOWNCONVERTER 2.7-5.5V	RYT 102 6116/1
D1849	MICROCIRCUIT/MIXER, DOWNCONVERTER 2.7-5.5V	RYT 102 6116/1
D1850	MICROCIRCUIT/OPAMP x4 2.7-5.5V R/R 1MHz	RYT 101 030/5C
D1851	MICROCIRCUIT/REG LIN+ 5.0V 150mA 0.575	RYT 113 6110/6
D1852	MICROCIRCUIT/SWITCH SPDT 0.5-3GHz GaAs	RYT 122 6026/1
D1853	MICROCIRCUIT/SWITCH SPDT 0.5-3GHz GaAs	RYT 122 6026/1
D1900	MICROCIRCUIT/DAC 10Bit 2.7-5.5V	RYT 120 6125/1
D1901	MICROCIRCUIT/DAC 10Bit 2.7-5.5V	RYT 120 6125/1
D1902	MICROCIRCUIT/DAC 10Bit 2.7-5.5V	RYT 120 6125/1
D1903	MICROCIRCUIT/DAC 10Bit 2.7-5.5V	RYT 120 6125/1
D1904	MICROCIRCUIT/DAC 10Bit 2.7-5.5V	RYT 120 6125/1
D1905	MICROCIRCUIT/I2C I/O EXPANDER 8-BIT SSOP20	RYT 109 6048/3C
D1910	MICROCIRCUIT/VREG,5.0,500MA,SO-8,MAX603ESA	RYT 113 6104/2C
D1911	MICROCIRCUIT/VREG,5.0,500MA,SO-8,MAX603ESA	RYT 113 6104/2C
D1912	MICROCIRCUIT/VREG,5.0,500MA,SO-8,MAX603ESA	RYT 113 6104/2C
D1913	MICROCIRCUIT/VREG,5.0,500MA,SO-8,MAX603ESA	RYT 113 6104/2C
D1914	MICROCIRCUIT/VREG,5.0,500MA,SO-8,MAX603ESA	RYT 113 6104/2C
N1000	MICROCIRCUIT/GALI-3-2 (selected version of	RYT 101 6874/1
N1120	MICROCIRCUIT/	RYT 101 6501/5
N1121	MICROCIRCUIT/	RYT 101 6501/5
N1180	MICROCIRCUIT/GALI-3-2 (selected version of	RYT 101 6874/1
N1181	MICROCIRCUIT/GALI-3-2 (selected version of	RYT 101 6874/1
N1300	MICROCIRCUIT/GALI-3-2 (selected version of	RYT 101 6874/1
N1301	MICROCIRCUIT/GALI-3-2 (selected version of	RYT 101 6874/1
N1360	MICROCIRCUIT/GALI-3-2 (selected version of	RYT 101 6874/1
N1361	MICROCIRCUIT/	RYT 101 6501/5
N1420	MICROCIRCUIT/	RYT 101 6501/5
N1421	MICROCIRCUIT/GALI-3-2 (selected version of	RYT 101 6874/1
N1480	MICROCIRCUIT/GALI-3-2 (selected version of	RYT 101 6874/1
N1540	MICROCIRCUIT/GALI-3-2 (selected version of	RYT 101 6874/1
N1600	MICROCIRCUIT/GALI-3-2 (selected version of	RYT 101 6874/1
N1660	MICROCIRCUIT/GALI-3-2 (selected version of	RYT 101 6874/1
N1720	MICROCIRCUIT/GALI-3-2 (selected version of	RYT 101 6874/1
N1780	OSCILLATOR/SPXO 19.44MHz +/-30ppm 0 to +70	RTL 201 629/24
N1840	MICROCIRCUIT/GALI-3-2 (selected version of	RYT 101 6874/1
T1240	TRANSFORMER/BALUN PCS 1900MHz	REG 135 99/3
T1241	BALUN/1900MHZ 0805 100ohm 0.5W	REG 735 9900/15
T1242	TRANSFORMER/BALUN PCS 1900MHz	REG 135 99/3
V1000	DIODE/CAP 5V 2-6.5pF SOD323	RKZ 323 6087/1
V1001	DIODE/CAP 5V 2-6.5pF SOD323	RKZ 323 6087/1

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V1002	DIODE/PIN 100V 100mA SOT23	RKZ 323 665/1
V1003	DIODE/PIN 100V 100mA SOT23	RKZ 323 665/1
V1004	DIODE/CAP 5V 2-6.5pF SOD323	RKZ 323 6087/1
V1005	DIODE/CAP 5V 2-6.5pF SOD323	RKZ 323 6087/1
V1120	DIODE/SCHx2 4V (1mA) SOT143	RKZ 323 6061/1
V1121	DIODE/SCHx2 4V (1mA) SOT143	RKZ 323 6061/1
V1122	TRANSISTOR/NPN SS 30V 100mA SOT323 hFE110	RYN 121 692/1
V1123	DIODE/SWI 70V 200mA SOT23 6ns	RKZ 123 02/1
V1124	TRANSISTOR/NPN SS 30V 100mA SOT323 hFE110	RYN 121 692/1
V1125	DIODE/SWI 70V 200mA SOT23 6ns	RKZ 123 02/1
V1126	TRANSISTOR/NPN SS 30V 100mA SOT323 hFE110	RYN 121 692/1
V1180	DIODE/PIN 100V 100mA SOT23	RKZ 323 665/1
V1181	DIODE/PIN 100V 100mA SOT23	RKZ 323 665/1
V1300	DIODE/RF SCH 2V 1mA SOT23 detector	RKZ 323 681/1
V1362	TRANSISTOR/NPN SS 30V 100mA SOT323 hFE110	RYN 121 692/1
V1363	DIODE/SWI 70V 200mA SOT23 6ns	RKZ 123 02/1
V1364	TRANSISTOR/NPN SS 30V 100mA SOT323 hFE110	RYN 121 692/1
V1365	DIODE/SWI 70V 200mA SOT23 6ns	RKZ 123 02/1
V1420	DIODE/PIN 100V 100mA SOT23	RKZ 323 665/1
V1421	DIODE/PIN 100V 100mA SOT23	RKZ 323 665/1
V1480	TRANSISTOR/NPN SS 30V 100mA SOT323 hFE110	RYN 121 692/1
V1481	DIODE/PIN 100V 100mA SOT23	RKZ 323 665/1
V1482	DIODE/PIN 100V 100mA SOT23	RKZ 323 665/1
V1542	TRANSISTOR/NPN SS 30V 100mA SOT323 hFE110	RYN 121 692/1
V1543	DIODE/SWI 70V 200mA SOT23 6ns	RKZ 123 02/1
V1544	TRANSISTOR/NPN SS 30V 100mA SOT323 hFE110	RYN 121 692/1
V1545	DIODE/SWI 70V 200mA SOT23 6ns	RKZ 123 02/1
V1660	DIODE/RF SCH 2V 1mA SOT23 detector	RKZ 323 681/1
W1000	DIRECTION COUPLER/Coupler, Directional, High Iso	UND 106 09/1
W1001	DIRECTION COUPLER/3DB COUPLER 1700-2000MHZ	UND 106 083/1
W1002	DIRECTION COUPLER/Coupler Directional, 03db, Chi	UND 106 10/1
W1003	DIRECTION COUPLER/Coupler Directional, 10db, Chi	UND 106 10/2
W1034	DIRECTION COUPLER/3DB COUPLER 1700-2000MHZ	UND 106 083/1
W1060	DIRECTION COUPLER/Coupler Directional, 10db, Chi	UND 106 10/2
W1061	DIRECTION COUPLER/Coupler, Directional, High Iso	UND 106 09/1
W1120	DIRECTION COUPLER/3DB COUPLER 1700-2000MHZ	UND 106 083/1
W1180	DIRECTION COUPLER/Coupler Directional, 03db, Chi	UND 106 10/1
W1181	DIRECTION COUPLER/Coupler Directional, 03db, Chi	UND 106 10/1
W1182	DIRECTION COUPLER/Coupler Directional, 10db, Chi	UND 106 10/2
W1183	DIRECTION COUPLER/Coupler Directional, 10db, Chi	UND 106 10/2
W1184	DIRECTION COUPLER/Coupler Directional, 03db, Chi	UND 106 10/1
W1240	DIRECTION COUPLER/Coupler Directional, 10db, Chi	UND 106 10/2
W1300	DIRECTION COUPLER/Coupler Directional, 03db, Chi	UND 106 10/1
W1301	DIRECTION COUPLER/Coupler Directional, 10db, Chi	UND 106 10/2
W1420	DIRECTION COUPLER/Coupler Directional, 03db, Chi	UND 106 10/1

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W1421	DIRECTION COUPLER/Coupler Directional, 03db, Chi	UND 106 10/1
W1422	DIRECTION COUPLER/Coupler Directional, 03db, Chi	UND 106 10/1
W1480	DIRECTION COUPLER/Coupler Directional, 03db, Chi	UND 106 10/1
W1600	DIRECTION COUPLER/Coupler, Directional, High Iso	UND 106 09/1
W1660	DIRECTION COUPLER/Coupler Directional, 10db, Chi	UND 106 10/2
W1661	DIRECTION COUPLER/Coupler Directional, 03db, Chi	UND 106 10/1
W1780	DIRECTION COUPLER/Coupler Directional, 10db, Chi	UND 106 10/2
W1840	DIRECTION COUPLER/PD18-73 Y010	UND 106 039/1
W1841	DIRECTION COUPLER/Coupler Directional, 03db, Chi	UND 106 10/1
W1842	DIRECTION COUPLER/Coupler Directional, 03db, Chi	UND 106 10/1

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2 2.1033(c)(9) Tune-Up Procedure

All the necessary adjustments will be set in the factory, and no adjustments are needed. The maximum output power level is remotely controlled by the Base Station Controller (BSC). If the MCPA are not able to maintain the requirements for power output etc an alarm is sent to the BSC. On severe faults the MCPA will disable transmission.

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3 **2.1033(c)(9,10) Power Tune-Up – Power Limiting**

The MCPA measures the output power at its output connector via a RF-detector and the detected value is used by the power loop control block to steer the three amplifiers between the input and the output of the amplifier. The MCPA is set to a standard gain which is not normally controllable from the switch system.