

Part Description

MODULE; RMC-1900

ASSY PCB; RDS WITH IF

RES; 360 OHM 5% 1/16W 0603

RES; 332 OHM 1% 1/16W 0603

RES; 619 OHM 1% 1/16W 0603

RES; 3.01 OHM 1% 1/16W 0603

RES; 2K OHM 1% 1/16W 0603

RES; 82 OHM 1% 1/16W 0603

RES; 10K OHM 1% 1/16W 0603

RES; 150 OHM 1% 1/16W 0603

RES; 2.7K OHM 1% 1/16W 0603

RES; 453 OHM 1% 1/16W 0603

RES; 221 OHM 1% 1/16W 0603

RES; 22K OHM 5% 1/10W 0805

RES; 1K OHM 1% 1/16W 0603

RES; 0 OHM; 5%; 1/16W; 0603

RES; 100 OHM 5% 1/16W 0603

RES; 1K OHM; 5%; 1/16W; 0603

RES; 11K OHM 5% 1/16W 0603

RES; 1.3K OHM 5% 1/16W 0603

RES; 16 OHM 5% 1/16W 0603

RES; 200 OHM 5% 1/16W 0603

RES; 2.2K OHM 5% 1/16W 0603

RES; 24K OHM 5% 1/16W 0603

RES; 2.7K OHM 5% 1/16W 0603

RES; 3K OHM 5% 1/16W 0603

RES; 33 OHM; 5%; 1/16W; 0603

RES; 3.6K OHM 5% 1/16W 0603

RES; 4.7K OHM; 5%; 1/16W; 0603

RES; 51 OHM; 5%; 1/16W; 0603

RES; 510 OHM; 5%; 1/16W; 0603

RES; 100.0 1% 0805(125mW) +/-100PPM CHIP THK F

RES; 1M OHM 1% 1/10W 0805

RES; 301 OHM 1% 1/10W 0805

RES; 0 OHM; 5%; 0805; (125mW) +/- 200 PPM; CHIP THK F

RES; 1.5K; 5%; 0805; (125mW) +/- 200PPM; CHIP THK F

Qty Ref Des

1

2 R329, R330

5 R47, R50, R53, R63, R66

1 R57

12 R7, R8, R104-R106, R108, R109, R111, R351, R364-R366

2 R150, R154

1 R181

4 R51, R74, R176, R177

3 R178-R180

1 R119

6 R9, R107, R110, R112, R367, R368

1 R62

1 R309

12 R30, R48, R49, R52, R54, R56, R61, R64, R65, R73, R149, R152

16 R29, R59, R97, R190, R191, R299, R302, R304, R311, R314, R349, R350, R370, R373, R375, R379

33 R26, R159, R225-R244, R249-R254, R263, R294-R297

14 R55, R101, R102, R188, R193, R245, R255-R258, R260, R266, R289, R298

4 R91-R94

1 R60

2 R103, R113

5 R96, R114, R116, R182, R183

7 R16, R21, R82, R87, R88, R171, R371

2 R135, R136

4 R316, R318, R319, R343

2 R89, R90

33 R195, R223, R224, R246-R248, R267-R287, R290, R291, R293, R306, R307, R317

2 R155, R156

18 R27, R35, R115, R137-R140, R151, R153, R172, R300, R301, R337, R338, R362, R363, R378, R381

3 R95, R141, R142

16 R36, R43, R58, R81, R128, R129, R143-R148, R170, R184, R376, R377

1 R352

2 R344, R345

3 R346-R348

8 R331-R334, R336, R339-R341

3 R325-R327

RES; 160 5% 0805(125mW) +/-200PPM CHIP THK F	9	R353-R361
		R14, R15, R17-R20, R37, R40-R42, R44-R46, R67-R72, R75-R80, R100, R157, R158, R167-R169, R173, R192,
RES; 4.7K 5% 0805(125mW) +/-200PPM CHIP THK F	37	R196, R197, R259, R261
RES; 510 5% 0805(125mW) +/-200PPM CHIP THK F	43	R1-R5, R83-R86, R98, R99, R174, R185-R187, R189, R194, R198-R222, R315
RES; 24 OHM 5% 1/4W 1210	15	R120-R127, R130-R133, R160, R175, R313
RES; 13 OHM 5% 1/2W 2010	2	R262, R264
RES NTWK; THIN FILM 10K 2% +/-100PPM 23-RES BUSS THIN FILM	6	RN1-RN6
RES NTWK; 4 RES 33 OHM 5% 63mW PER RES ISOLATED	39	RN7, RN9-RN12, RN14-RN23, RN26, RN28-RN30, RN34, RN37-RN52, RN75-RN77
RES NTWK; 4 RES 510 OHM 5% 63mW PER RES ISOLATED	10	RN8, RN13, RN24, RN25, RN53-RN55, RN57, RN67, RN68
RES NTWK; 4 RES 1K OHM 5% 63mW PER RES ISOLATED	13	RN31-RN33, RN56, RN58-RN66
RES NTWK; 4 RES 4.7K OHM 5% 63mW PER RES ISOLATED	7	RN27, RN69-RN74
CAP; CER 10PF 5% COG/NP0 50V	4	C378-C380, C383
CAP; CER .010UF 10% X7R 50V	63	C11, C48, C209-C225, C227-C254, C261-C272, C283, C375-C377
CAP; CER 470PF 10% X7R 50V	9	C15-C21, C273, C274
		C9, C10, C12-C14, C22-C47, C49-C95, C97-C99, C106, C109-C122, C124-C128, C130, C131, C150, C171, C195,
CAP; CER 0.1UF 10% X7R 25V 0603	198	C196, C203, C226, C258, C275-C282, C284, C285, C290-C303, C305-C364, C366, C381, C382, C384
CAP; CER 1000PF NPO 5% 25V 0603	13	C100-C105, C107, C108, C185, C186, C197-C199
CAP; CER 220PF NPO 5% 50V 0603	2	C370, C371
CAP; CER 3.9PF NPO +/- .25pF 50V 0603	2	C172, C173
CAP; CER 22PF NPO 5% 50V 0603	1	C123
CAP; CER 30PF NPO 1% 50V 0603	2	C96, C179
CAP; CER 68PF NPO 1% 50V 0603	1	C169
CAP; CER 18PF NPO 1% 50V 0603	5	C132-C135, C187
CAP; CER 27PF NPO 1% 50V 0603	3	C2, C4, C170
CAP; CER 8200PF X7R 5% 16V 0603	2	C174, C175
CAP; TANT 22UF 20% 35V LOW ESR 7343H	1	C129
CAP; CER 22PF NPO +/- .25PF 50V 0603	6	C1, C168, C200-C202, C287
CAP; CER 10PF NPO +/- .25pF 50V 0603	6	C5-C8, C206, C207
CAP; CER 12PF NPO +/- .25pF 50V 0603	1	C176
CAP; CER 100PF NPO 1% 50V 0603	2	C183, C184
CAP; CER 20PF NPO 2% 50V 0603	1	C205
CAP; CER 82PF NPO 2% 50V 0603	2	C3, C190
CAP; CER 0.1uF X7R 5% 25V 0805	1	C204
CAP; CER 1uF X7R 10% 50V 1812	2	C372, C373
CAP; TANT 1.0UF 10% 16V,3216	2	C182, C255
CAP; TANT 10UF 10% 16V	26	C136-C140, C142-C146, C149, C151, C153-C155, C160-C164, C181, C191-C194, C365
CAP; TANT 10UF 10% 20V 6032	9	C141, C147, C148, C152, C156, C159, C165, C188, C189

CAP; TANT 15UF 10% 16V 6032	4	C157, C158, C166, C167
CAP; TANT 22UF 10% 10V 6032	3	C177, C178, C180
CAP; TANT 220UF 10% 6V 7343H	4	C208, C367-C369
IC; LVC 2 INPUT OR GATE; -40 TO 85 C 5-PIN SC70	1	U68
IC; FPGA EP1K50 ACEX1K SERIES; -40+85C 144TQFP	1	U80
IC; DUAL HDLC; -40 TO +85C 100TQFP	1	U66
IC; SRAM; 64KX16 3.3V 15NS -40 TO +85C 44TSOP	2	U33, U34
IC; ZERO DELAY BUFFER DIV; 2 3.3V -40+85C 8SOIC	2	U44, U82
IC; LVC SINGLE BUFFER 3STATE; -40+85C 5PIN SSOP	1	U87
IC; ZERO DELAY BUFFER NINE OUTPUTS; -40 TO 85C 16 TSSOP	1	U32
IC; ZERO DELAY BUFFER; 3.3V -40+85C 8SOIC	3	U45, U47, U64
IC; RS485 1TX 1RX 3.3V IND TEMP SO8	4	U25, U29, U42, U43
IC; DUAL MONOSTABLE; -40+70C 16TSSOP	2	U89, U90
IC; PWR MONITOR	1	U65
IC; MICROCONTROLLER; 3V 33MHZ -40 TO 85C 144 LQFP	1	U67
IC; PLD; EP1K10 ACEX1K FAMILY 144 TQFP	1	U79
IC; TTL TO DIFFERENTIAL LVDS QUAD DRIVER	3	U48-U50
IC; TTL TO DIFFERENTIAL LVDS QUAD RECEIVER	9	U51-U59
IC; DIGITAL DOWN CONV; 3.3V -40 TO 85C 196LBGA	1	U78
IC; XSTR; 160V 6000MA SOT-23	3	Q1-Q3
IC; COMPARATOR DUAL LOW POWER LOW OFFSET 8 SOIC	1	U22
IC; OP AMP; 25 MHZ BW -40 TO 85C 8 SOIC	1	U23
SWITCH; PUSH BUTTON RT ANG PC THRU-HOLE	1	SW1
SWITCH; SPST 4 SWITCH POSITION 8 PIN SMT	1	SW4
IC; VREG; 500MA LDO ADJ OUT -40 TO 125C TO-263-5	1	U35
IC; VREG; 800MA LDO ADJ OUT 8 SOIC	8	U1-U7, U36
IC; PHASE DETECTOR; 800 MHZ BW -40 TO 70C 8 SOIC	1	U9
IC; PLL CLOCK DRIVER; 25-110MHZ 0 TO 70C 32 LQFP	1	U17
IC; 2:1 MUX	1	U39
IC; LV SINGLE LVDS DRIV/REC; 3.3V OR 5V -40 TO 85C 14 SOIC	2	U40, U41
IC; LVC OCTAL D REGISTER; 3 STATE OUTPUT 20 SOIC	1	U70
IC; ALVCH REGISTER 3-STATE 16 BIT; 3V W/RES 48 TSSOP	3	U14, U30, U71
IC; LVC DUAL D-TYPE FLIP-FLOP; 14 SOIC	1	U83
IC; LVC HEX INVERTER; -40 TO 85C 14 TSSOP	2	U28, U72
IC; LVC HEX OPEN DRAIN BUFFER; -40 TO 85C 14 TSSOP	3	U73, U84, U85
IC; LVC OCTAL BUS TRANSCEIVER; -40 TO 85C 20 TSSOP	4	U61, U74-U76
IC; LVC 2 INPUT OR GATE; -40 TO 85C 14 TSSOP	1	U24

IC; TRANSCEIVER; RS-232 W/AUTO SHUTDOWN +3.0/+5.0V	1	U63
IC; POWER MONITOR; -40 TO 85C SOT-223	1	U69
IC; A/D CONV; 12 BIT 80MSPS 3.3V -40 TO 85C 52 LQFP	2	U18, U19
IC; QUAD DIGITAL UPCONV; 200 MSPS 14 BIT 80 QFP	1	U21
IC; AHC 16 BIT BUFFER/DRIVER; 3.3V -40 TO 85C 48 TSOP	1	U81
OSC; VCXO; 19.6608MHZ +/-100PPM 0 TO 70C THRU HOLE	1	Y1
RF VCO; 68 MHZ 9DBM OUT -40 TO 85C SMT	1	U16
OSC; QUARTZ 7.4927MHZ +/-100PPM -40+85C SMT 7.5X5MM	1	Y2
AMPLIFIER; DC-2.5GHZ 23.5DBM 160MA 5V SOT-89	1	U8
FILTER; EMI 1.5UF 50V 6A 2220	2	FL1, FL2
FILTER; EMI 1UF 16V 2A 0805	1	FL3
RF,MXR,RF/LO=.5-500MHz,IF=DC-500MHz,CL=6.8 dB TYP,6 SMT	1	U10
FERRITE BEAD; 120 OHM 3A 3216	2	L37, L38
RF,PLL SYNTH,45-550MHz,1-100MHz REF,-40 TO 85C,16 TSSOP	2	U12, U13
RF,SYNTH,177-187MHz,9dBm TYP,-40 TO 70C,SMT	1	U11
CONN; D-SUB; RECEPTACLE; 9-PIN; RT ANGLE	1	J14
CONN; 16 POS; DUAL ROW	1	J16
CONN; RECEPTACLE; 10 POS; 2x5 SMT	1	J12
CONN; HEADER; 20 PIN; 0.1"X0.1"; 4 WALL POLARIZED; SMT	1	J8
SHIELD; 33.86X5.08X36.83MM FRAME	2	ES1, ES2
SHIELD; 33.86X5.08X36.83MM COVER	2	XES1, XES2
SOCKET; DIP8; SMT	1	U88
HEADER; 14 PIN; SHROUD; VERTICAL; 2 ROW	1	J6
ADAPTER; HIGH-DENSITY; SINGLE; MICTOR CONN	3	J2, J17, J18
CONN; SHROUDED HEADER; 20 POS SMT	2	J13, J20
CONN; VHDM; 6 ROW ASSEMBLY FOR RDS	1	J9
CONN; HEADER; VERTICAL; 10 PIN; 2x5; SMT	4	J5, J7, J10, J15
CONN; HEADER; VERTICAL; 6 PIN; 1x6; SMT	1	J11
CONN; VERTICAL; 40 CKT; 2x20; 30u" Au; SMT	1	J1
CONN; HEADER; VERTICAL; .165"CTR; 2X1; W/PEG 94V-0 GOLD	1	J21
TEST POINT; PCB .090 X .160 X .040 LOOP MINI-GRAB	25	TP1-TP25
CONN; RF; SLB; JACK; STR; STEPPED LEGS; PC MT	3	J3, J4, J28
IND; 10uH SRF=35MHz .370x.510 SMT	3	L1, L2, L34
IND; 18nH Q=50 SRF=2500MHz 2% 1008	1	L27
IND; 68nH Q=65 SRF=1300MHz 2% 1008	2	L57, L58
IND; 220nH Q=45 SRF=700MHz 2% 0805	3	L53-L55
IND; 390nH Q=45 SRF=500MHz 2% 1008	1	L5

LED; RED; 1206	2	DS8, DS10
IND; 27NH Q=55 SRF=1600MHZ 2% 1008	1	L26
IND; 330NH Q=45 SRF=570MHZ 2% 1008	4	L3, L4, L21, L24
IND; 2.2UH Q=28 SRF=160MHZ 5% 1008	17	L9-L19, L22, L23, L25, L50-L52
IND; 22nH Q=55 SRF=2400MHz 2% 1008	4	L28-L31
IND; 100nH Q=60 SRF=1000MHz 2% 1008	5	L6-L8, L35, L36
IND; 2.2UH Q=30 320MA 1210	7	L39, L40, L42, L44-L46, L49
DIODE SCHOTTKY; RECTIFIER; 3.0A 40V	1	CR1
DIODE SCHOTTKY; 200mA 30V BARRIER SINGLE SOT-23	8	CR2-CR7, CR10, CR11
DIODE SCHOTTKY; RECTIFIER DUAL; 20A TO-263AB	1	CR9
OPTOCOUPLER; 200MW 4 -55 TO 100C PHOTOTRANSIST. SMT	1	U62
LED; GREEN; 1206 SMT	5	DS1-DS4, DS6
LED; YELLOW; 1206 SMT	5	DS7, DS11-DS14
LED; ASSY 4 STACK-GRYG; RT ANG ULTRABRIGHT PC MT	1	DS15
FUSE; 5A 125V SLO-BLO TYPE SMT	1	FS1
TRANSFORMER; 4:1	7	T1-T7
PROG ASSY; 590017.POF CHECK SUM = 000D41BF LION	1	U77
DOC; PROG INSTRUCTIONS; 590017	REF	
IC; CPLD; 3.3V -7 SPEED -40 TO 85C 44 TQFP	1	
PROG ASSY; 590019.POF CHECK SUM =	1	XU88
DOC; PROG INSTRUCTIONS; 590019	1	
IC; ALTERA FPGA CONFIG E2PROM; 1MBIT -40+85C 8PDIP	1	
PROG ASSY; 590022.POF CHECK SUM = 000E4169 FEDEX	1	U20
DOC; PROG INSTRUCTIONS; FOR 590022	REF	
IC; CPLD; 3.3V -7 SPEED -40 TO 85C 44 TQFP	1	
PROG ASSY; EEPROM 2048 X 8 SERIAL IO I ² C; RDS MODULE	1	U31
DOC; GUIDELINES; AIRVANA PRODUCT LABELING	1	
DOC; REFERENCE; FORMAT; SERIAL E2PROM AND NV-RAM	REF	
DOC; REFERENCE; RF CALIBRATION FORMAT	1	
IC E2PROM 16KBIT 2WIRE 2.7 TO 5V -40 TO +85C 8SOIC	1	
DOC; PROGRAM INSTRUCTIONS; FOR 590056	REF	
PCB FAB; RDS WITH IF	1	
SCHEMATIC; RDS WITH IF	REF	
DOC; TEST PLAN; RDS TEST LIMITS; MANUFACTURING	REF	
DOC; GUIDELINES; AIRVANA PRODUCT LABELING	REF	
ASSY PCB; RDS POWER CARD	1	
DOC; GUIDELINES; AIRVANA PRODUCT LABELING	REF	

RES; 2.7K OHM 1% 1/16W 0603	1	R16
RES; 22K OHM 5% 1/10W 0805	2	R29, R37
RES; 0 OHM; 5%; 1/16W; 0603	1	R57
RES; 1K OHM; 5%; 1/16W; 0603	1	R3
RES; 1.5K; 5%; 0805; (125mW) +/- 200PPM; CHIP THK F	5	R20-R23, R55
RES; 22 5% 0805(125mW) +/-200PPM CHIP THK F	23	R1, R5-R15, R17-R19, R27, R28, R32-R36, R40
RES; 4.7K 5% 0805(125mW) +/-200PPM CHIP THK F	1	R30
RES; 0.01 OHM 1% 1/2W 2010	8	R31, R51-R54, R60, R63, R64
CAP; CER .010UF 10% X7R 50V	1	C2
CAP; TANT 22UF 20% 35V LOW ESR 7343H	1	C1
CAP; CER 0.1 UF 100V X7R 10%	1	C4
CAP; AL ELECT 220UF 20% 50V POLAR	2	C32, C33
CAP; CER 0.68uF X7R 10% 10V 0805	1	C5
CAP; CER 0.1uF X7R 5% 25V 0805	2	C31, C34
CAP; CER 1uF X7R 10% 50V 1812	4	C16, C20, C21, C25
CAP; TANT 220UF 10% 6V 7343H	1	C6
CAP; TANT 100UF 10% 20V 7343H	1	C26
CAP; TANT 6.8UF 10% 50V 7343H	4	C7, C10, C11, C15
IC; HOT SWAP CNTRL LATCH MODE; -40 TO +85C 8 SOIC	1	U1
CONV; DC-DC; 24V INPUT 3.3V OUTPUT ISOLATED 20 WATT	1	U4
IC; POWER MOSFET N-CHANNEL 60V .025 OHM 30A TO-252	1	Q1
FERRITE BEAD; SMT	4	L10-L13
CONN; RECEPTACLE; 20 POS; SMT	2	J2, J3
CONN; HEADER; VERTICAL; 10 PIN; 2x5; SMT	1	J1
CONN; HEADER; RT ANG; 2 CKT; 15u" Au; SMT	2	J4, J5
IND; 10uH SRF=35MHz .370x.510 SMT	4	L1, L4, L5, L8
LED; RED; 1206	1	DS1
LIMITER; SURGE ZENER; 1500W VR=33V VBR=36.7V UNI-DIR	1	CR2
DIODE; ZENER; 350mW DISS SOT-23	1	CR3
DIODE SCHOTTKY; RECTIFIER; 3A .245 X .320 SMT	1	CR1
OPTOCOUPLER; 200MW 4 -55 TO 100C PHOTOTRANSIST. SMT	1	U7
FUSE; 2.5A 125V SLO-BLO TYPE SMT	1	FS8
CONV; DC-DC 24V IN 5V OUT 4A 1.67"X1.48" 6 PIN	2	U10, U11
CONV; DC-DC 24V IN 15V OUT 1A 1.67"X1.48" 6PIN	1	U5
PCB FAB; RDS POWER CARD RESPIN	1	
SCHEMATIC; RDS POWER CARD	REF	
ASSY DWG; RDS POWER CARD RESPIN	REF	

MECH; SUB ASSY; RAS	1	
DOC; PROCEDURE; TEST AND ACCEPTANCE FOR RAS MODULE	REF	
DOC; PROCEDURE; VISUAL INSPECTION FOR RAS	REF	
DOC; PROCEDURE; FLOWSHEET FOR RAS	REF	
DWG ASSY; RADIO MODULE KIT	REF	
RAS MODULE	1	
DOC; PROCEDURE; TEST AND ACCEPTANCE FOR RAS MODULE	REF	
DOC; PROCEDURE; VISUAL INSPECTION FOR RAS	REF	
DOC; PROCEDURE; FLOWSHEET FOR RAS	REF	
RES; 75K OHM 5% 1/16W 0603	2	R186, R187
RES; 51K OHM 5% 1/16W 0603	1	R243
RES; 470 OHM 5% 1/16W 0603	1	R117
RES; 1K OHM 1% 1/16W 0603	4	R199, R201, R203, R204
RES; 0 OHM; 5%; 1/16W; 0603	6	A33, R329-R331, R340, R343
RES; 100 OHM 5% 1/16W 0603	43	R17-R20, R23, R24, R27-R54, R61-R66, R267, R268, R276 R67-R69, R71, R72, R74-R77, R81-R86, R90-R92, R108, R115, R200, R202, R247-R253, R255, R258, R269, R335-
RES; 1K OHM; 5%; 1/16W; 0603	36	R337, R339
RES; 10K OHM; 5%; 1/16W; 0603	17	R78, R97, R99-R106, R109, R110, R127, R128, R270-R272
RES; 100K OHM 5% 1/16W 0603	4	R118-R121
RES; 11K OHM 5% 1/16W 0603	11	R1, R2, R4, R6-R9, R14-R16, R266
RES; 1.2K OHM 5% 1/16W 0603	8	R185, R208, R254, R256, R257, R259-R261
RES; 16 OHM 5% 1/16W 0603	3	R228-R230
RES; 160 OHM 5% 1/16W 0603	3	R231, R232, R239
RES; 2K OHM 5% 1/16W 0603	3	R177, R234, R236
RES; 220 OHM; 5%; 1/16W; 0603	4	R174, R175, R240, R321
RES; 2.2K OHM 5% 1/16W 0603	1	R176
RES; 2.4K OHM 5% 1/16W 0603	2	R233, R235
RES; 24K OHM 5% 1/16W 0603	2	R98, R210
RES; 2.7K OHM 5% 1/16W 0603	4	R225-R227, R341
RES; 2.2 OHM 5% 1/16W 0603	3	R125, R126, R220
RES; 3K OHM 5% 1/16W 0603	7	R93, R95, R111, R182-R184, R209
RES; 4.7 OHM 5% 1/16W 0603	5	R122-R124, R129, R130
RES; 51 OHM; 5%; 1/16W; 0603	2	R245, R246
RES; 5.1K OHM 5% 1/16W 0603	11	R11, R79, R80, R94, R96, R107, R112-R114, R116, R286
RES; 62 OHM 5% 1/16W 0603	2	R237, R238
RES; 7.5K OHM 5% 1/16W 0603	2	R157, R158
RES; 1M OHM 1% 1/10W 0805	1	R244

RES; 0 OHM; 5%; 0805; (125mW) +/- 200 PPM; CHIP THK F	5	A31, R221-R223, R311
RES; 10 ; 5%; 0805; (125mW) +/- 200 PPM; CHIP THK F	13	R131, R133, R137, R141, R143, R145, R147, R149, R151, R168, R169, R262, R274
RES; 100; 5%; 0805; (125mW) +/- 200PPM; CHIP THK F	1	R173
RES; 4.7 5% 0805(125mW) +/-200PPM CHIP THK F	15	R159, R160, R162, R164-R167, R170-R172, R178-R181, R275
RES; 100 OHM 5% 1/8W 1206	3	R280-R282
RES; 13 OHM 5% 1/2W 2010	3	R190, R192, R194
CAP; CER 10PF 5% COG/NP0 50V	14	C1-C6, C8-C13, C314, C323
CAP; CER 2200PF 10% X7R 50V	2	C108, C124
CAP; CER 470PF 10% X7R 50V	15	C16-C30
CAP; CER 0.1UF 10% X7R 25V 0603	71	C31-C38, C40, C42-C48, C51, C52, C54-C80, C82-C85, C87, C89-C98, C280-C285, C313, C324, ZC001-ZC003
CAP; CER 1000PF NPO 5% 25V 0603	47	C99-C103, C105-C107, C109-C115, C117, C120-C122, C125-C136, C138-C140, C142-C148, C212, C213, C279,
CAP; CER 27PF NPO 5% 50V 0603	2	C286, C288, C291
CAP; CER 39PF NPO 5% 50V 0603	2	C226, C227
CAP; CER 56PF NPO 5% 50V 0603	1	C234
CAP; CER 5.1PF NPO +/- .25pF 50V 0603	1	C274
CAP; CER 15PF NPO 5% 50V 0603	2	C235, C236
CAP; CER 560PF NPO 5% 25V 0603	2	C237, C238
CAP; CER 12PF NPO 5% 50V 0603	4	C186, C192, C239, C240
CAP; CER 11PF NPO 5% 50V 0603	16	C197-C202, C205-C210, C247, C248, C275, C276
CAP; CER 3.9PF NPO +/- .25pF 50V 0603	2	C264, C265
CAP; CER 8.2PF NPO 5% 50V 0603	2	C277, C278
CAP; CER 18PF NPO 5% 50V 0603	14	C217-C223, C266-C269, C292, C318, C325
CAP; CER 22PF NPO 5% 50V 0603	2	C270, C271
CAP; CER 33PF NPO 1% 50V 0603	8	C190, C194, C320-C322, C326-C328
CAP; CER 10UF 6.3V	4	C224, C225, C230, C232
CAP; TANT; 100UF; 10V; BEAD; TH	1	C317
CAP; CER 0.1uF X7R 5% 25V 0805	2	ZC004, ZC005
CAP; TANT 1.0UF 10% 16V,3216	18	C154-C167, C196, C214, C289, C290
CAP; TANT 2.2uF 10% 25V 3528	4	C14, C15, C188, C191
CAP; TANT 10uF 20% 10V 3216	1	C153
CAP; TANT 10UF 20% 25V 7343	17	C168, C169, C171, C172, C174-C185, C287
VARISTOR; 8200PF 18V +80/-20% 2MM SMT	16	C211, C249-C263
IC,LOG AMP,DC-440MHz,95 dB,-40 TO 85C,8 SOIC	1	VR1
IC; COMPARATOR DUAL LOW POWER LOW OFFSET 8 SOIC	2	U65, U66
IC; OP AMP; 25 MHZ BW -40 TO 85C 8 SOIC	2	U68, U70
	3	U71, U72, U77

IC; XSTR; PNP 2 ELEMENT BASE COUPLED 5 SMT	11	Q1, Q2, Q4, Q6-Q12, Q28
IC; XSTR; NPN 2 ELEMENT BASE COUPLED 5 SMT	11	Q13, Q14, Q16, Q18-Q21, Q25-Q27, Q29
IC; VREG; 500MA LDO ADJ OUT -40 TO 125C TO-263-5	2	U18, U19
IC; VREG; 800MA LDO ADJ OUT 8 SOIC	13	U20-U32
IC; SHUNT VOLTAGE REF; 1.2V OUT -40 TO 85C SOT-23	1	CR2
IC; LVC HEX OPEN DRAIN BUFFER; -40 TO 85C 14 SOIC	1	U73
IC; TEMP SENSOR; 2.7 TO 5.5V SOT-23	1	U56
IC; A/D CONV 12 BIT; 3 TO 5.5V -40 TO 85C 16 SSOP	2	U3, U4
IC; DAC 12 BIT; 2.7 TO 5.5V -40 TO 105C SOT23-6	3	U62-U64
OSC; VCXO; 40MHZ 50PPM SMT	1	U12
FILTER; SAW 190MHZ IL=8DB -40 TO 65C 7.3x9.3MM SMT	2	FL4, FL5
RF ATTEN; 4DB TEMP COMP SMT	1	A32
AMPLIFIER; 1880MHZ 13 DB GAIN +41DBM OIP3	3	U13-U15
AMPLIFIER; VARIABLE GAIN W/DETECTOR	2	U16, U17
AMPLIFIER; DC-4GHZ 13-18 DB GAIN SMT	10	U33, U34, U36, U38-U44
AMPLIFIER; DC-2.5GHZ 23.5DBM 160MA 5V SOT-89	3	U45-U47
FILTER; BPASS 1850-1910MHZ IL=5DB MAX 0 TO 50C SMT	2	FL1, FL2
FILTER; BPASS 1930-1990 MHZ LL=5DB MAX 0 -50C SMT	1	FL38
FILTER; BPASS CF=2115MHZ 1DB BW=70MHZ SMT	1	FL7
FILTER; BPASS CF=1690MHZ 1DB BW=60MHZ SMT	2	FL8, FL9
FILTER; SAW 153.6MHZ IL=16DB 19x6.5MM SMT	1	FL10
FILTER; BPASS CF=1880MHZ BW=60MHZ -40 TO 85C 6 SMT	2	FL11, FL12
FILTER; SAW 1.96GHZ IL=3.3DB 3x3x1.2MM SMT	1	FL13
FILTER; EMI 1.5UF 50V 6A 2220	1	FL14
FILTER; EMI 1UF 16V 2A 0805	22	FL15, FL16, FL18, FL19, FL21-FL25, FL28-FL37, FL39-FL41
MIXER; LEVEL 17	2	U48, U49
RF,MXR,RF/LO=80-2500MHz,IF=1-1000MHz,CL=9.5dB,SMT	1	U50
RF,ATTEN,VVA,1.7-2 GHz,18.5-25dB,8 SOIC	1	U52
RF,ATTEN,DC-7000MHz,1dB,1.3:1,1W,4 SMT	7	A13-A15, A27-A30
RF,ATTEN,DC-7000MHz,2dB,1.3:1,1W,4 SMT	7	A4, A11, A12, A24-A26, U75
RF,ATTEN,DC-7000MHz,3dB,1.3:1,1W,4 SMT	4	A2, A3, A5, A10
RF,ATTEN,DC-7000MHz,5dB,1.3:1,1W,4 SMT	1	A1
POWER SPLITTER	1	U55
RF,COUPLER,1710-1990 MHz,18 +/-1.8dB,6 SOIC	3	U57-U59
RF,CROSSOVER,DC-6GHz,LOW LOSS,HIGH ISO,SMT	2	U74, U76
RF,COUPLER,5-200MHz,6.2 +/- .3dB,.31x.22 SMT	1	U60
FERRITE BEAD; 120 OHM 3A 3216	1	L52

RF,PLL SYNTH,1660-1720MHz,5-40MHz REF,.75x.75 SMT	1	U1
RF,PLL SYNTH,2080-2150MHz,5-40MHz REF,.75x.75 SMT	1	U2
RF,DETECTOR/CONTROLLER,,1 TO 2.5GHz,45dB,-30 TO 85C,8 uSOIC	4	U8-U11
CONN; SMB; RECEPTACLE; 4 LEG; GOLD PLATED	7	J5-J11
HEADER; 44 PIN; .430 LEAD	1	J1
CONN; HEADER; VERTICAL; 10 PIN; 2x5; SMT	1	J38
TEST POINT; PCB .090 X .160 X .040 LOOP MINI-GRAB	8	TP1-TP8
CONN; RF; SLB; PLUG; STR; STEPPED LEGS; PC MT	3	J3, J4, J28
MECH; RAS BOX; PARTITIONED	1	
MECH; RAS COVER; TOP	1	
LED; RED; 1206	2	DS1, DS2
IND; 2.2uH SRF=80MHz 5.6A 20% .510x.370	1	L1
IND; 68nH Q=37 SRF=1700MHz 2% 0603	2	L42, L44
IND; 4.7nH Q=20 SRF=5800MHz 5% 0603	2	L48, L49
IND; 39nH Q=39 SRF=1800MHz 5% 0603	1	L6
IND; 100nH Q=30 SRF=1300MHz 5% 0603	1	L7
IND; 100NH Q=34 SRF=1400 2% 0603	21	L8-L17, L33-L41, L46, L47
IND; 33NH Q=40 SRF=2300MHz 5% 0603	2	L18, L19
IND; 47NH Q=38 SRF=2000MHz 5% 0603	2	L20, L21
IND; 33NH Q=40 SRF=2300MHz 2% 0603	2	L77, L80
IND; 22NH Q=38 SRF=3000MHZ 2% 0603	6	L72-L75, L79, L81
IND; 120NH Q=60 SRF=950MHZ 2% 1008	1	L22
IND; 2.2UH Q=28 SRF=160MHZ 5% 1008	8	L23-L25, L27, L28, L30-L32
DIODE SCHOTTKY; BARRIER RECTIFIER; Io=3A 40V SMC	1	CR1
TRANSFORMER; 4:1	3	T1-T3
PROG ASSY; 590022.POF CHECK SUM = 000E4169 FEDEX	1	U61
DOC; PROG INSTRUCTIONS; FOR 590022	REF	
IC; CPLD; 3.3V -7 SPEED -40 TO 85C 44 TQFP	1	
PROG ASSY; EEPROM 2048 X 8 SERIAL IO I ² C; RAS MODULE	1	U78
DOC; GUIDELINES; AIRVANA PRODUCT LABELING	1	
DOC; REFERENCE; FORMAT; SERIAL E2PROM AND NV-RAM	REF	
DOC; REFERENCE; RF CALIBRATION FORMAT	1	
IC E2PROM 16KBIT 2WIRE 2.7 TO 5V -40 TO +85C 8SOIC	1	
DOC; PROGRAM INSTRUCTIONS; FOR 590055	REF	
DWG ASSY; RADIO MODULE KIT	REF	
WASHER; #2 FLAT SS	87	
WASHER; #2 LOCK SS	159	

SCREW; 2-56X.187LG PAN HEAD SS	87	
SCREW; 2-56X.250 L; PAN HEAD SS	72	
PCB FAB; RAS SPIN 4	1	
SCHEMATIC; RAS SPIN 4	REF	
ASSY DWG; RAS SPIN 4	REF	
DOC; REWORK; FOR 750061 WITH PCB FAB 700061	REF	
DOC; GUIDELINES; AIRVANA PRODUCT LABELING	REF	
MECH; RAS BOX; PARTITIONED	1	
MECH; RAS COVER; TOP	1	
WASHER; #2 LOCK SS	174	
SCREW; 2-56X.187LG PAN HEAD SS	174	
ASSY DWG; RAS	REF	
DOC; GUIDELINES; AIRVANA PRODUCT LABELING	REF	
ASSY; CABLE; SIGNAL RDS	1	
CONN; HOUSING; 16 POS	1	B4
CONTACT SOCKET; AWG 20-24; CRIMP TERMINAL	12	B5
CONN; PLUG; SMB (RG-316DS)	3	B3
WIRE; 22 AWG; WHITE	8	B6
CABLE; COAX; RG-316; DOUBLE SHIELD	1.5	B7
CONN; D-SUB; RECEPTACLE; 24W7	1	B1
CONTACT; PLUG; RF (RG-316DS) PHOENIX	3	B2
ASSY DWG; CABLE; SIGNAL RDS-PA	1	
CABLE	REF	
ASSY; CABLE; RF (LNA-RF IN - RX)	2	
CONN; PLUG; SMA; STRAIGHT (RG-316DS)	1	B2
316DS)	1	B1
CABLE; COAX; RG-316; DOUBLE SHIELD	.86	B3
ASSY DWG; CABLE; RF STRAIGHT	1	
CABLE	REF	
ASSY; CABLE; RF (RAS RX SAMPLE - RX SAMPLE)	2	
316DS)	1	B1
CONN; PLUG; SMB (RG-316DS)	1	B2
CABLE; COAX; RG-316; DOUBLE SHIELD	1	B3
ASSY DWG; CABLE; RF (RAS RX0 - LNA RF OUT)	REF	
CABLE	REF	
ASSY; CABLE; RF (RAS RX - LNA RF OUT)	2	
CONN; PLUG; SMA; STRAIGHT (RG-316DS)	1	B1

CONN; PLUG; SMB (RG-316DS)	1	B2
CABLE; COAX; RG-316; DOUBLE SHIELD	.5	B3
ASSY DWG; CABLE; RF STRAIGHT	REF	
CABLE	REF	
ASSY; CABLE; POWER (LNA TO RDS POWER CARD)	2	
CONTACT SOCKET; AWG 20-24; CRIMP TERMINAL	2	B2
CONN; HOUSING RECEPTACLE; 2 POS; SINGLE ROW	1	B1
WIRE; 22 AWG; RED	1	B3
WIRE; 22 AWG; BLACK	1	B4
ASSY DWG; CABLE; POWER (LNA TO RDS POWER CARD)	1	
MECH; BRACKET; MOUNTING LNA	1	
MECH; BRACKET; MOUNTING RAS	2	
PANEL; FRONT, RMC-1900	1	
AMPLIFIER; LOW-NOISE SMA	2	
JACK POST; 4-40 X .13 LG	2	
BRACKET; ANGLE	3	
STANDOFF; 6-32X5/8 M/F	2	
STANDOFF; 6-32X5/8 F/F	2	
STANDOFF; 6-32X7/8 M/F	1	
STANDOFF; 6-32X1-1/2 F/F	1	
STANDOFF; 6-32X1-1/4 F/F HINGED	2	
WASHER; #6 FLAT SS	17	
WASHER; #6 LOCK SS	30	
SCREW; 6-32X.375 PAN HEAD SS	22	
SCREW; 6-32X.438 PAN HEAD SS	4	
WASHER; #4 LOCK SS	8	
SCREW; 4-40X .875 PAN HEAD SS	8	
NUT; 4-40 HEX SS	8	
TUBING; HEAT SHRINK 3/32"X100'	.25	
TIE WRAP; 6 INCH; CABLE	1	
HARDWARE DESCRIPTION AND SPECIFICATION; RADIO MODULE	REF	
ASSY DWG; RADIO MODULE; RN 8000	REF	
DOC; GUIDELINES; AIRVANA PRODUCT LABELING	REF	