

DATE: 17/9/03
V1

Part List

MW-DR80050W90B

Line	Part Des.	Qty.	Unit	Sup. Part	Locations
1	HEAT SINK ASSY	1.00	EA	300GB21000	A1
2	CONNECTORS PANEL ASSY	1.00	EA	300GB27000	A2
3	DIGITAL FILTER	2.00	EA	300GB22000	A3 A4
4	PANEL FOR COVER ASSY	1.00	EA	300GB24000	A5
5	CABLE ASSY	1.00	EA	30WGB20100	CA1
6	GROUND CABLE	1.00	EA		CA2
7		1.00	EA		CA3
8	SCREW PAN P #6-32X3/8 UNC-2A	12.00	EA	MS51957-28	H1
9	WASHER FLAT NO.6	14.00	EA	MS15795-806	H2
10	WASHER SPRING NO.6	14.00	EA	98209	H3
11	SCREW HEX M6x16 S.S. WITH WORTH	8.00	EA	AA4406016	H4
12	WASHER FLAT NO.1/4	13.00	EA	96311	H5
13	WASHER SPRING NO.1/4	11.00	EA	MS35338-139	H6
14	SCRW HEX 1/2-12X40MM WHITWORTH	4.00	EA	W-STEEL-1/2-12X40MM	H7
15	WASHER FLAT M12	8.00	EA	DIN125A-A2-M12	H8
16	WASHER HELICAL SPRING M12	4.00	EA	DIN127B-A2-M12	H9
17	NUT 1/2"	4.00	EA	NA1113000	H10
18	SCRW PAN P #2-56X1/2	2.00	EA	MS51957-7	H12

	UNC-2A				
19	NUT HEX 2-56 UNC-2B	2.00	EA	MS35649-224	H13
20	WASHER FLAT NO.2	2.00	EA	NAS620C2	H14
21	WASHER SPRING NO.2 MEDIUM	2.00	EA	MS35338-134	H15
22	SCRW FLAT P #4-40X7/16 SST	2.00	EA	MS24693-C5	H16
23	NUT HEX 4-40 UNC-2B	2.00	EA	MS35649-244	H17
24	WASHER FLAT NO.4	10.00	EA	NAS620C4	H18
25	NUT HEX M6 ST.ST.	2.00	EA	DIN934-A2- M6	H19
26	SCREW HEX 1/4"X25mm ST.ST	1.00	EA	AA4106025	H20
27	SCREW PAN P #6-32X5/8 UNC-2A	2.00	EA	MS51957-31	H22
28	NUT HEX 8-32-1/4X3/32 UNJC-3B	2.00	EA	70208	H23
29	WASHER FLAT NO.8S	4.00	EA	96306	H24
30	WASHER SPRNG NO.8	4.00	EA	98210	H25
31	SCRW PAN P #4-40X5/16 UNC-2A	8.00	EA	MS51957-14	H26
32	WASHER SPRING NO.4 ST.ST.REGULAR(MEDIUM)	8.00	EA	98205	H27
33	RIVET 3x8	4.00	EA		H28
34	SCREW PAN P #8- 32X7/16UNC-2A	2.00	EA	MS51957-44	H29
35	CASE REWORK	1.00	EA	300GB20050	ME1
36	HANDLE A=128MM STANDARD	4.00	EA	MO-20.128.04	MP1
37	SUPPORT	2.00	EA	300NA50450	MP2
38	ADAPTOR	1.00	EA	300GB20550	MP3

39	PLATE	1.00	EA	300GA41650	MP4
40	ADHESIVE BACKED MOUNT FOR 8" STRIP	5.00	EA	ABMM-AT-D	MP5
41	4-WAY ADHESIVE BACKED MOUNTS	5.00	EA	ABM1M-A-C	MP6
42	CABLE TIE L=5-1/2" W=.10" D=1-1/4"	10.00	EA	SST1.5M	MP7

MW-DR80050W90B HEAT SINK ASSY

Line	Part Des.	Qty.	Unit	Sup. Part	Locations	Alternate Parts
1	Cellular Mid Power Amp	1.00	EA	CD0202000	A1	1510992667
2	AMP RF 850-870Mhz	1.00	EA	7039-PCM3Q4AAL	A2	
3	CHANNELER-BD-DIG	1.00	EA	300GB23000	A3	
4	COUPLER ASSY	1.00	EA	300FB72000	A4	
5	Coaxial isolator model C10-1L 5FF	1.00	EA	Coax. Isolator 0.78-0.8GHZ	A5	
6	Diplexer for D.R Rx=806-821 Tx=851-866	1.00	EA	DB806U851D/15M	FL1	
7	DIPLEXER IDEN 100WCW 806-821MH 851-866MH	1.00	EA	SGC-D858.5-15SS-KSR	FL2	
8	SCRW PAN P #4-40X5/8 UNC-2A	8.00	EA	23027	H1	
9	WASHER FLAT NO.4	18.00	EA	NAS620C4	H2	
10	WASHER SPRING NO.4 ST.ST.REGULAR(MEDIUM)	18.00	EA	98205	H3	

11	SCRW PAN P #8-32X3/8 UNC-2A	14.00	EA	MS51957-43	H4	
12	WASHER FLAT NO.8S	14.00	EA	96306	H5	
13	WASHER SPRNG NO.8	14.00	EA	98210	H6	
14	SCREW PAN P #6-32X1/2 UNC-2A	3.00	EA	MS51957-30	H7	
15	WASHER FLAT NO.6	9.00	EA	NAS620C6L	H8	
16	WASHER SPRING NO.6	9.00	EA	98209	H9	
17	SCRW PAN P #4-40X3/8 UNC-2A	8.00	EA	MS51957-15	H10	
18	SCREW PAN PHILIPS HEAD M3X8	6.00	EA	DIN 7985A-A2 M3x8	H11	
19	SCRW FLAT P 4-40X1 UNC-2A 82DEG	2.00	EA	MS51959-21	H12	
20	NUT HEX 4-40 UNC-2B	2.00	EA	MS35649-244	H13	
21	PLASTIC RING ISOLATION FOR TO CASES	4.00	EA		H14	
22	HEAT SINK	1.00	EA	300GB20150	MP1	
23	BRACKET-PS	1.00	EA	300GB20250	MP2	
24	BRACKET-DUP	1.00	EA	300GB20350	MP3	
25	BRACKET	1.00	EA	300UA30150	MP4	
26	TERMINAL TAB 8.0x0.8mm BLU VINYL	4.00	EA	FDV2-312	MP5	
27	MICA FOR TO-220 PACKAGES	4.00	EA		MP6	
28	POWER SUPP.28V@11A,9V@6A FASTON CON 350W	1.00	EA	CSF350EQ-28 9B	PS1	
29	CABLE ASSY L=28CM	1.00	EA	UTM141-32S122- 32S122-28CM	W2	
30	CABLE ASSY L=29CM	1.00	EA	UTM141-32S122- 32S122-29CM	W3	

31	CABLE ASSY L=25CM	1.00	EA	UTM141-32S122-32S122-25CM	W4	
32	CABLE ASSY L=19CM	1.00	EA	UTM141-32S122-32S122-19CM	W5	
33	CABLE ASSY L=14CM	1.00	EA	UTM141-32S122-32S122/14CM	W7	
34	CABLE ASSY L=47CM	1.00	EA	UTM141-32S122(X2)-47CM	W8	
35	CABLE ASSY L=23CM	1.00	EA	UTM141-32S122(X2)-23CM	W9	
36	CABLE ASSY SMA-SMA MALE STR. D.SHL D 60cm	4.00	EA	CC010B0B60	W10	
37	CABLE ASSY L=19CM	1.00	EA	UTM141-32S122(X2)-19CM	W11	
38	PARTS LIST	1.00	EA	300GB21002		

MONITOR

1	PCB ASSY	1.00	EA		A1
2	SCRW PAN P #4-40X1/4 UNC-2A	8.00	EA	23022	H1
3	WASHER FLAT NO.4	8.00	EA	NAS620C4	H2
4	WASHER SPRING NO.4 ST.ST.REGULAR(MEDIUM)	8.00	EA	98205	H3
5	BRACKET PCB	1.00	EA	300UA30450	MP1
6	COVER	1.00	EA	300MA80550	MP2
7	SWITCH TS-22 SPDT 1A 28Vdc 3P STR SOLDER	1.00	EA	TS-22	S1
8	SW ACCES-CAP FOR SW RED	1.00	EA	CV1-3	S2

PCB ASSY MONITOR

Line	Part Des.	Qty.	Unit	Sup. Part	Locations	Alternate Parts
1	CAP F CER 0.1 MF 50V 5%SMT T/R=3000	10.00	EA	VJ1206Y104JXAT	C1 C2 C3 C4 C5 C6 C8 C11 C12 C13	
2	CAP F CHIP 4.7MF 35V 20%	2.00	EA	CWR06MC475MM	C9 C10	115994412 0
3	CAP F CHIP 1UF 50V -80/- 20%	6.00	EA	UMK212F105ZT	C14 C15 C16 C17 C18 C19	
4	DIODE SW 100V 200MA	17.00	EA	1N4148	D1 D4 D5 D6 D7 D8 D9 D10 D11 D12	
					D13 D14 D15 D16 D17 D18 D19	
5	DIODE REC 240V 1 A	1.00	EA	1N3611JANTX	D3	118040006 7
6	SCRW PAN P #4-40X3/8 UNC-2A	1.00	EA	MS51957-15	H1	
7	NUT HEX 4-40 UNC-2B	1.00	EA	MS35649-244	H2	
8	WASHER SPRING NO.4 ST.ST.REGULAR(MEDIUM)	1.00	EA	98205	H3	
9	WASHER FLAT NO.4	1.00	EA	NAS620C4	H4	
10	HEAT SINK FOR TO-220	1.00	EA		HS1	

	HEIGHT=.500"					
11	CONN D TYPE, PLUG 25P	1.00	EA	M24308/24-33F	J1	
12	PCB MONITOR	1.00	EA	300AB80504	PC1	
13	RES FX CHP 20 KOHM 1%T/R=5000PCS	1.00	EA	CR1206FX2002E	R1	
14	RES FX SMT1206 10KOHM 1%T/R=5000PCS	4.00	EA	CR1206FX1002E	R2 R8 R54 R72	
15	RES FX SMT 1.33 KOHM 1%T/R=5000PCS	2.00	EA	RK73H2BTE1331F	R4 R50	
16	RES F CHP 1.21KOHM1/4W 1% T/R=5000	7.00	EA	CR1206FX1211E	R5 R7 R28 R51 R53 R75 R76	
17	RES FX SMT 475 OHM 1%T/R=5000PCS	3.00	EA	CR1206FX4750E	R6 R27 R29	
18	RES FX 2.7KOHM 1/4W 5%	6.00	EA	CR1206JW272E	R9 R11 R24 R55 R57 R70	
19	RES FX 8.25KOHM 1/4W 1%SMD T/R=5000PCS	5.00	EA	CR1206FX8251E	R10 R23 R25 R69 R71	
20	RES FX CHP 5.11KOHM 1%T/R=5000PCS	5.00	EA	CR1206FX5111E	R12 R30 R45 R47 R58	
21	RES FX SMT 1 KOHM 1%T/R=5000PCS	25.00	EA	CR1206FX1001E	R13 R14 R15 R16 R18 R19 R20 R21	
					R41 R42 R43 R52 R59 R60 R61 R62	
					R64 R65 R66 R67	

					R74 R88 R89 R90	
					R92	
22	RES FX SMT 2 KOHM 1%T/R=5000PCS	2.00	EA	CR1206FX2001E	R17 R46	
23	RES FX SMT 3.01KOHM 1%T/R=5000PCS	2.00	EA	CR1206FX3011E	R22 R68	
24	RES FX 3.3KOHM 5%CHIP	3.00	EA	M55342K03B3K30 R	R26 R31 R73	
25	RES FX SMT 100 KOHM 1%T/R=5000PCS	16.00	EA	RK73H2BTE1003F	R32 R33 R34 R35 R37 R38 R39 R40	
					R78 R79 R80 R82 R83 R84 R85 R87	
26	RES FX CHIP 6.19KOHM 1%TAPE=4000PCS	1.00	EA	CR1206FX6191E	R48	
27	RES FX SMT 51.1OHM 1%T/R=5000 200PPM	1.00	EA	CR1206FW51R1E	R86	
28	IC AMPLIF H.SIDE CURRENT SENS DIP-8	5.00	EA	MAX471CPA	U1 U3 U4 U7 U8	
29	RES FX WIREWOUND 0.01OHM 1% 3W	2.00	EA	LVR-3-0.01-OHM- 1%	U3' U7'	
30	IC COMPARATOR QUAD SINGLE SUPPLY	5.00	EA	LM339N	U5 U6 U12 U13 U14	
31	IC OP-AMP	2.00	EA	LM324N	U9 U10	
32	RELAY 5-VDC COIL 178 OHM SING.SIDE STAB	1.00	EA		U11	
33	IC REGULATOR +8V 1.5A TO-220 3PIN	1.00	EA	KA7808I	U15	
34	LED LAMP T-1 RED	8.00	EA	HLMP-1200	V1 V2 V3	

					V4 V5 V6 V7 V8	
35	PARTS LIST	1.00	EA	300BB79102		

DIGITAL FILTER

1	PCB ASSY	1.00	EA	300VA96100	A1
2	FAN 12V DC 0-0.08A 39dbA SQ92MMX25MM	1.00	EA	3610KL-04W- B50-P00("NMB"	B1
3	SCRW PAN P #4-40X1/4 UNC-2A	6.00	EA	23022	H1
4	WASHER FLAT NO.4	6.00	EA	NAS620C4	H2
5	WASHER SPRING NO.4 ST.ST.REGULAR(MEDIUM)	6.00	EA	98205	H3
6	SCRW FLAT P 4-40X1/4 UNC-2A 100DEG	4.00	EA	MS24693-C2	H4
7	SCREW PAN P #6-32X1/2 UNC-2A	8.00	EA	MS51957-30	H5
8	WASHER FLAT NO.6	16.00	EA	MS15795-806	H6
9	WASHER SPRING NO.6	8.00	EA	98209	H7
10	NUT HEX 6-32 UNC-2B	11.00	EA	MS35649-264	H8
11	SCREW PAN P #6-32X7/16UNC- 2A	3.00	EA	MS51957-29	H9
12	WASHER SPRING NO.8	3.00	EA	MS35338-137	H10
13	WASHER FLAT NO.6	3.00	EA	MS15795-805	H11
14	CONN D-TYPE PLUG 9P STR 4-40 SCREWLOCK	1.00	EA	G17S-0910-131	J1
15	CONN D-TYPE RECEP 9S STR PANEL 4-40	1.00	EA	G17S-09-00-110	J2
16	BASE	1.00	EA	300GB20850	MP1
17	COVER	1.00	EA	300GB20950	MP2
18	FAN ACCES-FAN GUARD 92MM 3600SERIE	1.00	EA	PG36-02	MP3

19	RUBBER FOOT ROUND 22x10.4mm BLACK	4.00	EA	R2210	MP4
20	RUBBER FOOT ROUND 12.5x11.5mm BLACK	1.00	EA	R1212	MP5
21	WIRE HU PTFE 26# BLU	1.00	MT	2843/19-6	W1
22	WIRE HU PTFE 26# YELLOW	1.00	MT	2843/19-5	W2
23	WIRE HU PTFE 24# BLK	1.00	MT	2844/19-2	W3
24	PARTS LIST	1.00	EA	300GB22002	
25	Adhesive peel & stick heat dissipaters 30m	1.00	EA		

DIGITAL FILTER PCB ASSY

1	CAP F CER 4.7UF 16V SMD1206 T/R=3000	4.00	REL	EMK316F475Z-T	C1 C3 C4 C7
2	CAP F 0.1UF 25V 10%CHIP SZ:0603	148.0 0	EA	VJ0603Y104KXXT	C2 C5 C6 C8 C16 C10 C9 C12
					C17 C51 C25 C34 C35 C38 C42 C43
					C46 C50 C52

				C53
				C55
				C56
				C57
				C58
				C59
				C60
				C61
				C62
				C63
				C65
				C66
				C67
				C68
				C74
				C70
				C71
				C72
				C73
				C75
				C76
				C77
				C78
				C79
				C80
				C82
				C83
				C84
				C85
				C86
				C87
				C88
				C89
				C90
				C92
				C93
				C94

				C95
				C96
				C97
				C98
				C101
				C99
				C100
				C104
				C197
				C105
				C106
				C107
				C108
				C109
				C110
				C111
				C112
				C113
				C114
				C117
				C118
				C119
				C120
				C121
				C122
				C123
				C124
				C125
				C126
				C127
				C128
				C129
				C130
				C131
				C132
				C133
				C134

				C135
				C138
				C140
				C196
				C141
				C142
				C143
				C144
				C145
				C146
				C147
				C148
				C149
				C152
				C154
				C155
				C156
				C157
				C158
				C159
				C160
				C162
				C164
				C165
				C166
				C167
				C168
				C169
				C170
				C173
				C174
				C175
				C176
				C177
				C179
				C180
				C181

				C182
				C183
				C184
				C185
				C186
				C187
				C188
				C190
				C191
				C192
				C193
				C194
				C195
				C204
				C205
				C206
				C207
				C210
3	CAP F TAN 10UF 16V 20% CHIP	36.00	EA	595D106X0016A2T
				C11
				C13
				C14
				C15
				C18
				C20
				C21
				C23
				C22
				C28
				C24
				C26
				C27
				C29
				C31
				C32
				C33
				C36
				C37

					C39 C40 C41 C45
					C47 C48 C49 C54 C69 C102
					C136 C139 C150 C189 C172 C178
					C209
4	CAP 10pF 5% 50V NPO 0603	2.00	EA	VJ0603A100JXAT	C30 C64
5	CAP F TAN 330uF 10V 20% CHIP	1.00	EA	T510X337M010AS	C44
6	RESISTOR CHIP JUMPER	46.00	EA	CR0603J/000E	C81 L7 L8 L9 L15 R1 R4 R8
					R12 R35 R27 R29 R28 R169 R32 R34

					R36 R77 R80 R127 R95 R99
					R180 R261 R189 R197 R202 R204
					R211 R283 R217 R218 R222 R223
					R233 R235 R241 R258 R272 R298
					R302 R312 R315 R318 R319 R320
7	CAP F AL CP 220uF 50V 20%T/R	3.00	EA	AFC227M50G24T	C103 C115 C116
8	CAP CHIP 100 PF 50V 5%NPO SZ:0603	4.00	EA	VJ0603A101JXAAT	C137 C151 C163 C171

9	CAP CHIP X7R 10NF 50V 5% SZ:0603	2.00	EA	VJ0603Y103JXAAT	C153 C161
10	CAP F CHIP 1UF 50V -80/- 20%	1.00	EA	UMK212F105ZT	C900
11	CAPACITOR 12pF T.H. 50V	1.00	EA		C901
12	CAPACITOR 82pF T.H. 50V	1.00	EA		C902
13	DIODE RECT ULTRA FAST 20V1A SMT T/R=2500	3.00	EA	MBRS120T3	CR1 CR2 CR3
14	SCRW PAN P #4-40X7/16 UNC-2A	4.00	EA	MS51957-16	H1
15	WASHER FLAT NO.4	4.00	EA	NAS620C4	H2
16	WASHER SPRING NO.4 ST.ST.REGULAR(MEDIUM)	4.00	EA	98205	H3
17	HEAT SINK FOR TO-220 W=22mm H=19mm L=19mm	3.00	EA	FI 355/19/SE	HS1
18	TERMINAL STRIP 10 PIN SMD 2 ROW VERTICAL	2.00	EA	TSM-105-01-L-DV	J1 J3
19	CONN RF SMA PC J90DEG	2.00	EA	901-143	J2 J4
20	TERMINAL STRIP 2 PIN SINGLE ROW	2.00	EA	TSW-1-02-07-L-S	JP1 JP2
21	CONN HEADER 2.54mm 2P VERTICAL 250V 4A	2.00	EA	22-27-2021	JP4 JP5
22	INDUCTOR 8.2uH 225mA 10% Q=20@1MHz 1210	3.00	EA	LQH3NBR2K34	L1 L2 L3
23	INDUCTOR 1000 OHM #0805 CHIP EMI FERR.	4.00	EA	BLM21A102F-PT	L4 L5 L14 L16
24	INDUCTOR 47UH 0.5A 20% SMT	1.00	EA	DO1608C-473	L6
25	INDUCTOR 1000NH	5.00	EA	1008CS-102XKBC	L10

	IDC=460MAQ=33 10% CHIP				L11 L12 L13 L17
26	LED AXIAL RED 2.6V MIN CD 4 SMD 8d	6.00	EA	TLMH3100-GS08	LED2 LED1 LED3 LED4 LED6 LED7
27	LAMP LED PC TYPE R/A RED	1.00	EA	HLMP-5000	LED5
28	Right Angle 16 Pin conn	2.00	EA	90130-3116	P1 P5
29	CONN PLUG D-TYPE 9- PIN STR PCB DIP SOL	1.00	EA	CD53-09PA100	P2
30	PCB EWS REPEATER PRODUCTION	1.00	EA	1260A00202	PC1
31	RES CHP 10KOHM 1/10W 1%"0603"T/R=5000	46.00	EA	CR0603FX1002E	R5 R6 R9 R10 R11 R13 R16 R17 R18
					R19 R20 R120 R121 R122 R123
					R126 R128 R131

					R132 R133
					R134 R135 R136 R137 R138 R139
					R140 R141 R142 R143 R144 R145
					R146 R147 R148 R152 R154 R155
					R157 R158 R159 R160 R201 R249
					R251 R253
32	RES FX 221 OHM 1/10W 1%CHIP	4.00	EA	CR0603FX2210E	R7 R21 R22 R23
33	RES CHIP 1K OHM 1/10W 1%SIZE 0603	3.00	EA	CR0603FX1001E	R14 R151 R125
34	RES CHP 20KOHM 1/10W	1.00	EA	CR0603FX2002E	R15

	1%"0603" T/R=5000				
35	RES FX 1.3KOHM 1/10W 1%CHIP	4.00	EA	CR0603FX1301E	R24 R117 R118 R119
36	RES FX 332 OHM 1/10W 1%SZ:0603 CHIP	3.00	EA	CR0603FX3320E	R25 R26 R196
37	RES 60.4 OHM 1% 1/10W 50V 0603	1.00	EA	CR0603-FX-60R4E	R30
38	RES FX 4.75KOHM 1/10W 1%#0603 T/R=5000	78.00	EA	CR0603FX4751E	R31 R39 R40 R41 R42 R43 R45 R46
					R47 R48 R49 R50 R51 R52 R53 R54
					R55 R56 R57 R58 R59 R60 R61 R62
					R63 R64 R65

				R66 R67 R68 R69 R70
				R71 R72 R73 R74 R75 R76 R78 R79
				R162 R44 R178 R181 R183
				R184 R185 R186 R187 R188 R190
				R191 R194 R195 R198 R199 R200
				R207 R208 R209 R225 R219 R220
				R226

					R234 R242 R243 R244 R245
					R246 R247 R248 R250 R252 R254
					R255 R257 R281
39	RES CHP 2KOHM 1/10W 1%"0603" T/R=5000	6.00	EA	CR0603FX2001E	R33 R88 R149 R150 R156 R161
40	RES CHP 100 OHM 1/10W 1% "0603" T/R=5000	32.00	EA	N1	R81 R82 R83 R84 R85 R86 R89 R90
					R91 R92 R93 R94 R96 R97 R98 R102
					R103

					R104 R105 R106 R107 R108
					R109 R110 R111 R112 R113 R114
					R115 R116 R124 R259
41	RES FX 24.9 OHM 1/10W 1%#0603 T/R=5000	2.00	EA	CR0603FX24R9E	R100 R101
42	RES FX 30.1 OHM 1/10W 1%CHIP	1.00	EA	CR0603FX30R1E	R130
43	RES 1 M OHM 1% 1/10W 50V 0603	1.00	EA	CR0603FX1004E	R153
44	RES 562 KOHM 1% 1/10W 50V 0603	1.00	EA	CR0603FX5623E	R163
45	RES FX 20 OHM 1/10W 1% #0603 T/R=5000	10.00	EA	CR0603FX20R0E	R166 R167 R203 R210 R231 R232
					R237 R238 R239 R240
46	RES FX 86.6 OHM 0.06W 1%T/R=5000	4.00	EA	CR0603FX86R6E	R182 R262 R263

					R264
47	RES FX 280 OHM 1/10W 1%CHIP	1.00	EA	CR0603FX2800E	R214
48	RES FX 133 OHM 0.06W 1% #0603 T/R=5000	4.00	EA	CR0603FX1330E	R265 R266 R267 R268
49	RES CHP 51.1 OHM 1/10W 1%SZ:0603 T/R3000	3.00	EA	CRCW0603-100-51R1-1%-P5	R278 R279 R280
50	CAP 39pF 5% 50V NPO 0603	2.00	EA	CL10C390JBNC	R285 R295
51	INDUCTOR 270nH 5% Q=38@800MHz 0603	2.00	EA	CIH10TR27JNEVC	R287 R296
52	INDUCTOR 390nH 5% Q=38@800MHz 0603	1.00	EA	0603CS-R39XJBW	R289
53	CAP 120pF 5% 50V NPO 0603	2.00	EA	CL10C121JBNC	R294 R291
54	RES SMD(1206), Zero ohm	1.00	EA	CR1206-J/-00E	R900
55	RES CHP 100KOHM 0.155W 1%SMT T/R=5000	1.00	EA	CR0805FX1003E	R901
56	SWITCH PUSH BUTTON RA 3P T.H.SPDT ON-OFF	1.00	EA	700-SP-7-B20MR6E	SW1
57	TRANSFORM RF 0.08- 200MHZ SMT	1.00	EA	T1-1T-KK81	T1
58	TRANSFORMER RF 0.2- 25MHZ SMT	1.00	EA	T4-1-KK81	T3
59	IC BUFFER/DRIVER ,4-BIT CMOS TSSOP	2.00	EA	74LCX125MTC	U1 U2
60	IC BUS TRANCEIVER 8- BIT SINGLE TSSOP20	2.00	EA	MM74HCT245MTC	U3 U11
61	IC REG POS 5V 1 A TO- 220 LOW DROPOUT	2.00	EA	MIC2940A-5.0BT	U4 U35

62	IC VOLT MODE SMPS CONTRL 12.55V 5% SOP8	1.00	EA	ADP1109AR-12	U5
63	IC MICROCONTROLLER 16 BIT MODULAR	1.00	EA	XCM916X1CTH16	U6
64	SOMC 802PFQ XELPMOC HSALF DLP CI	1.00	EA	XC95288XL-10PQ2	U7
65	Clock Oscilator 65.536MHZ 3.3V 20ppm SMD	1.00	EA	COS 3 20 ET TS65.563MHZ	U9
66	IC LMS1585 REG 5A 3.3V LOW DROP TO220	2.00	EA	LMS1585ACT-3.3	U10 U18
67	IC NC7SZ04M5 UHS DUAL BUFF INV SC70 SMD	1.00	EA	NC7SZ04M5	U12
68	IC SRAM 128K X8 CMOS SOJ32	2.00	EA	AS7C1024-20TJC	U13 U14
69	IC DRIVER/BUFF 2 EA SO16 F/RS232 TUBE=65	1.00	EA	MAX232MAX4375AESE(TUB E	U17
70	IC MAX6301 5V uP ADJ RESET/WATCHDOG	1.00	EA	MAX6301ESA	U20
71	IC D/A CONVERTER 14 BIT QFP48	1.00	EA	AD9772AAST	U21
72	OSC 16MHz 100ppm 5v 20mA 7.5x5mm SMD	1.00	EA	VF1-16MHZ	U22
73	IC 4-CH PROCESSOR(DTS) MQFP128	2.00	EA	AD6622AS	U23 U24
74	IC 4 CH PROCESSOR(RSP) MQFP128	2.00	EA	AD6624AS	U25 U26
75	IC TEST JTAG SUPPORT IEEE1149.1 TSSOP24	1.00	EA	SN74LVT8996PW	U27
76	IC F-F OCT D-TYPE LOW VLT TSSOP20	2.00	EA	74LCX574MTC	U29 U33
77	IC A/D CONVERTER 14BIT	1.00	EA	AD6644AST-65	U30

	QFP52				
78	IC NC7WZ07P6 UHS DUAL BUFFER SC70 SMD	1.00	EA	NC7WZ07P6	U31
79	IC POS FX VLT REG +2.5V 3% SIP5	1.00	EA	LP3966ES-2.5	U32
80	IC RECEIVER DIFFERENTIAL	2.00	EA	MC100EL16D	U36 U39
81	IC TEN DISTR-OUTPUT CLOCK DRIVER SSOP20	1.00	EA	IDT74FCT3807APY	U38
82	TRN FET N CH 30V 11mOHM SO8	1.00	EA	IRF7805	U40

CHANNELER

1	PCB ASSY	1.00	EA		A1	
2	SCRW PAN P #2-56X1/4 UNC-2A	3.00	EA	MS51957-3	H1	
3	WASHER FLAT NO.2	3.00	EA	NAS620C2	H2	
4	WASHER SPRING NO.2 MEDIUM	3.00	EA	MS35338- 134	H3	
5	SCRW PAN P #4-40X1/4 UNC-2A	2.00	EA	23022	H4	
6	WASHER SPRING NO.4 ST.ST.REGULAR(MEDIUM)	2.00	EA	98205	H5	
7	CONN ACCES FEMALE SCREW LOCKS+KIT	4.00	EA	M24308/26- 1	H6	147900090 1
8	SCREW FLAT P 2-56X5/8 UNC-2A 82DEG	38.00	EA	MS51959-8	H7	
9	BODY	1.00	EA	300BB70050	MP1	
10	COVER	1.00	EA	300BB70150	MP2	
11	PARTS LIST	1.00	EA	300GB2300 2		

CHANNELER PCB ASSY

1	CAP CHIP 100 PF 50V 5%NPO SZ:0603	84.00	EA	VJ0603A101JXAA T	C7 C19 C21 C22 C28 C29 C32 C38	
					C39 C48 C54 C56 C57 C62 C66 C68	
					C71 C73 C75 C77 C79 C82 C83 C85	
					C87 C94 C97 C100 C101 C103	
					C105 C121 C150 C155 C159	

				C161	
				C162 C163 C165 C166 C169 C171	
				C173 C177 C178 C180 C181 C182	
				C188 C192 C194 C196 C197 C198	
				C209 C211 C212 C214 C216 C218	
				C225 C234 C238 C239 C250 C252	
				C256 C287 C290 C291 C292 C297	

					C299 C301 C355 C359 C396 C399	
					C402 C434 R15 R197 R327 R341	
2	CAP F 0.1UF 25V 10%CHIP SZ:0603	100.0 0	EA	VJ0603Y104KXXT	C9 C10 C11 C12 C14 C15 C17 C18	
					C20 C23 C30 C31 C33 C41 C49 C76	
					C55 C59 C63 C64 C69 C72 C74 C80	
					C81	

					C84 C86 C89 C92 C93 C96 C98	
					C102 C104 C106 C136 C137 C144	
					C149 C156 C157 C164 C168 C172	
					C174 C175 C179 C183 C184 C189	
					C195 C208 C213 C219 C220 C222	
					C223 C226 C232 C236 C237 C240	

					C245 C247 C251 C254 C257 C269	
					C278 C288 C289 C293 C296 C298	
					C300 C352 C354 C356 C357 C360	
					C361 C365 C371 C372 C377 C378	
					C395 C397 C398 C400 C401	
					C404 C407 C409 C414 C420 C427	
					C433 R308	

					R309	
3	CAP TANT 35V 15UFD	11.00	EA	293D156X9035D2 T	C13 C65 C70 C78 C95 C153	
					C221 C364 C366 C367 C403	
4	CAP 2.2pF +/- 0.25pF 50V NPO 0603	8.00	EA	CL10C2R2CBNC	C34 C37 C191 C201 C228 C233	
					C243 C249	
5	CAP 1.5pF +/- 0.25pF 50V NPO 0603	4.00	EA	CL10C1R5CBNC	C35 C40 C190 C200	
6	CAP 3.9pF +/- 0.25pF 50V NPO 0603	5.00	EA	VJ0603A3R9CXAT	C36 C42 C193 C199 R196	
7	CAP 680pF 5% 50V NPO 0603	8.00	EA	CL10C681JBNC	C44 C51 C134 C138 C139 C205	
					C279	

					C284	
8	CAP 5.6pF +/- 0.25pF 50V NPO 0603	9.00	EA	CL10C5R6CBNC	C99 C158 C167 C176 C210 C217	
					C224 C231 C246	
9	CAP 4.7pF +/- 0.25pF 50V NPO 0603	16.00	EA	CL10C4R7CBNC	C107 C109 C160 C170 C207 C215	
					C227 C229 C241 C242 C253 C255	
					C294 C295 C302 C303	
10	RESISTOR CHIP JUMPER	61.00	EA	CR0603J/000E	C115 C206 L2 L38 L103 L18	
					R17 R275 R18 R20	

				R27 R44 R48 R58	
				R62 R86 R109 R136 R146 R149	
				R154 R157 R168 R171 R174 R184	
				R207 R211 R213 R220 R221 R237	
				R246 R248 R266 R272 R287 R294	
				R303 R304 R315 R332 R351 R355	
				R374 R381 R385	

					R386 R387 R394	
					R396 R439 R443 R441 R462 R474	
					R464 C112 R476 R467 U19	
11	RES FX 86.6 OHM 0.06W 1%T/R=5000	4.00	EA	CR0603FX86R6E	C125 C274 R186 R370	
12	CAP CHIP X7R 10NF 50V 5% SZ:0603	4.00	EA	VJ0603Y103JXAA T	C129 C132 C275 C276	
13	CAP 15pF 5% 50V NPO 0603	6.00	EA	CL10C150JBCN	C130 C133 C141 C273 C285 C286	
14	RES CHP 100 OHM 1/10W 1% "0603" T/R=5000	7.00	EA	N1	C202 R360 R25 C142 R176 R178	
					R362	
15	CAP TAN 33uF	2.00	EA	293D336X9020D2	C351	

	20V 10% D-SIZE T/R=4000			T	C368	
16	DIODE SW 75V SOD80CT/R=2500	2.00	EA	FDLL4148	D3 D4	
17	PIN DIODE	8.00	EA	HSMP-3864-BLK	D5 D6 D7 D8 D9 D10 D12 D13	
18	LED AXIAL RED 2.6V MIN CD 4 SMD 8d	1.00	EA	TLMH3100-GS08	D11	
19	Filter 4 Poles 813/15	2.00	EA	SBP-4R3- 813LN15C	FL13 FL18	
20	Filter 4 Poles 858/15	2.00	EA	SBP-4R3- 858LN15C	FL16 FL22	
21	SMA STRAIGHT SIDE PC SDP	8.00	EA	SDP22368-0	J1 J2 J3 J4 J5 J6 J7 J8	
22	Right Angle 16 Pin conn	1.00	EA	90130-3116	JP1	
23	Rigrt Angle 10 p conn	1.00	EA	TST-105-04-L-D- RA (Samtec	JP90 1	
24	INDUCTOR 1000NH IDC=460MAQ=33 10% CHIP	12.00	EA	1008CS-102XKBC	L1 L12 L19 L22 L23 L31 L40 L42	

					L43 L58 L96 L104	
25	INDUCTOR 180nH 5% Q=45@100MHz 620mA 1008	6.00	EA	1008CS-181XJBC	L3 L4 L17 L20 L21 L59	
26	Inductor 0603 8.2 nH	12.00	EA	LL1608-FS8N2J	L5 L6 L7 L9 L63 L65 L69 L70	
					L83 L85 L91 L92	
27	Inductor 0603 33nH	4.00	EA	LL1608-FS33NJ	L8 L11 L66 L68	
28	Inductor 0603 47nH	20.00	EA	LL1608-FS47NJ	L10 L15 L28 L39 L41 L46 L53 L56	
					L64 L67 L71 L75 L78 L80	

					L86 L87	
					L95 L105 L106 L111	
29	Inductor 0603 22nH	8.00	EA	LL1608-FS22NJ	L24 L45 L50 L57 L73 L76 L81 L88	
30	Inductor 0603 15nH	12.00	EA	LL1608-FS15NJ	L29 L44 L55 L72 L77 L82 L84 L89	
					L90 L93 L108 L113	
31	Inductor 0603 12nH	4.00	EA	LL1608-FS12NJ	L30 L94 L107 L112	
32	RES 392 OHM 1% 1/10W 50V 0603	4.00	EA	FCR03FT392R	L47 L52 L109 L114	
33	RES 619 OHM 1% 1/10W 50V 0603	8.00	EA	FCR03FT619R	L48 L49	

					L51 L54 L74 L79	
					L110 L115	
34	CONN PLUG D- TYPE 9-PIN STR PCB DIP SOL	1.00	EA	CD53-09PA100	P1	
35	CONN RECT D- TYPE 9-PIN STR PCB DIP SOL	1.00	EA	CD53-09SA100	P900	
36	CHANNLER PCB	1.00	EA	300DB20204	PC1	
37	SOT-23 ELEC PN2222 MARKED 1B	4.00	EA	MMBT2222	Q2 Q3 Q11 Q12	
38	SOT-23 ELEC PN2907 MARKED 2B	2.00	EA	MMBT2907	Q13 Q14	
39	RES CHP 20KOHM 1/10W 1%"0603" T/R=5000	10.00	EA	CR0603FX2002E	R10 R11 R93 R116 R162 R347	
					R423 R494 R503 R510	
40	RES CHIP 1K OHM 1/10W 1%SIZE 0603	23.00	EA	CR0603FX1001E	R19 R24 R80 R91 R103 R114	

					R143 R144 R147 R150 R153 R160	
					R226 R227 R228 R229 R230 R278	
					R293 R345 R409 R419 R492	
41	RES FX 0.3 OHM 1/2W 1% 1206	3.00	EA	ML1206-R300-F-T	R32 R129 R128	
42	RES 681 OHM 1% 1/10W 50V 0603	1.00	EA	FCR03FT681R	R39	
43	RES 47 KOHM 1% 1/10W 50V 0603	6.00	EA	CR0603-FX-4702E	R40 R45 R83 R106 R461 R438	
44	RES 49.9 OHM 1% 1/10W 50V 0603	52.00	EA	CR0603-FX-49R9E	R43 R164 R165 R166 R167 R353	
					R203 R204	

				R206 R208 R222 R223	
				R224 R225 R262 R282 R283 R284	
				R285 R299 R300 R301 R302 R316	
				R317 R319 R320 R323 R325 R328	
				R329 R330 R331 R335 R336 R338	
				R339 R342 R343 R349 R350 R352	
				R375 R376 R378	

					R379 R388 R389	
					R391 R392 R425 R501	
45	RES 37.4 OHM 1% 1/10W 50V 0603	25.00	EA	FCR03FT37R4	R46 R47 R49 R51 R59 R60 R65 R66	
					R188 R189 R190 R191 R216 R254	
					R256 R258 R259 R260 R261 R263	
					R265 R274 R321 R369 R371	
46	RES FX 24.9 OHM 1/10W 1%#0603 T/R=5000	4.00	EA	CR0603FX24R9E	R52 R67 R253 R500	

47	RES FX 221 OHM 1/10W 1%CHIP	4.00	EA	CR0603FX2210E	R53 R54 R252 R257	
48	RES CHP 10KOHM 1/10W 1%"0603"T/R=500 0	22.00	EA	CR0603FX1002E	R78 R101 R142 R517 R161 R163	
					R187 R239 R313 R314 R346 R348	
					R373 R445 R469 R502 R504 R509	
					R511 R515 R543 R544	
49	RES 2.21 KOHM 1% 1/10W 50V 0603	14.00	EA	FCR03FT2K21	R79 R81 R89 R102 R104 R209	
					R112 R210 R218 R219 R280	

					R297	
					R380 R393	
50	RES 40.2 KOHM 1% 1/10W 50V 0603	4.00	EA	FCR03FT40K2	R82 R105 R437 R460	
51	RES 100 KOHM 1% 1/10W 50V 0603	4.00	EA	CR0603-FX-1003E	R84 R107 R418 R493	
52	Potentiometer 5k 11turn trim.	2.00	EA	3224W-1-502E	R85 R108	
53	RES FX 499 OHM 0.06W 1% #0603 T/R=5000	6.00	EA	CR0603FX4990E	R87 R110 R306 R311 R344 R397	
54	RES FX 2.8 KOHM 1/10W 1% #0603 T/R=5000	6.00	EA	CR0603FX2801E	R88 R111 R141 R234 R516 R545	
55	RES 9.09 KOHM 1% 1/10W 50V 0603	2.00	EA	CR0603-FX-9091E	R139 R235	
56	RES 2.21 OHM 1% 1/10W 50V 0603	8.00	EA	CRCW0603 2R21 1%	R140 R202 R212 R231 R286 R290	
					R322 R337	

57	RES 17.4 OHM 1% 1/10W 50V 0603	6.00	EA	FCR03FT17R4	R156 R233 R170 R194 R269 R358	
58	RES 294 OHM 1% 1/10W 50V 0603	12.00	EA	FCR03FT294R	R158 R159 R169 R172 R192 R361	
					R193 R268 R232 R240 R270 R357	
59	RES 61.9 OHM 1% 1/10W 50V 0603	4.00	EA	FCR03FT61R9	R177 R359 R185 R372	
60	RES 150 OHM 1% 1/10W 50V 0603	4.00	EA	FCR03FT150R	R205 R215 R217 R324	
61	CAP 6.8pF +/- 0.25pF 50V NPO 0603	2.00	EA	VJ0603A6R8CXAT	R377 R390	
62	RESISTOR NET 10K OHM 5% 62mW 50V SMT	4.00	EA	CRA06S0803 10K J	RN13 RN35 RN38 RN39	
63	RESISTOR NET 0 OHM 5% 62mW 50V SMT	1.00	EA	CRA06S0803 0R	RN17	

64	RESISTOR NET 1K OHM 5% 62mW 50V SMT	6.00	EA	CAY16-102J4	RN20 RN32 RN34 RN36 RN37 RN40	
65	RESISTOR NET 20K OHM 5% 62mW 50V SMT	1.00	EA	CRA06S0803 20K J	RN31	
66	150 mA Low Dropout Regulat 6.1V	2.00	EA	LP2985AIM5-6.1	U3 U13	
67	1 A LOW DROPOUT REGULATOR 8V	2.00	EA	LM2940T-8.0	U5 U14	
68	Coupler SMT 20dB 897 mhz	2.00	EA	CP2012-20A0897	U6 U29	
69	AMP RF SGA6486 G=16.4DB@2GHz N=3.3DB SMT	6.00	EA	SGA-6486	U7 U8 U21 U27 U28 U30	151094070 5
70	IC LM324 QUAD OPR AMP TSSOP RELL 2500	4.00	EA	LM324MTX	U9 U10 U52 U53	
71	Regulator 3.3V 400mA SOT 223	1.00	EA	LM2937IMP-3.3	U15	
72	High Linear Amp MGA-53543	12.00	EA	MGA-53543-TR1	U16 U18 U23 U24 U25 U31 U32	

					U33	
					U35 U37 U40 U41	
73	ATTEN RF 0.7- 3.7GHZ 1DB SOP10 5-BIT DIG	2.00	EA	HMC273MS10G	U17 U26	
74	RF power detec 1k- 1Ghz -34-(+14)dbm	2.00	EA	LTC5507ES6	U20 U39	
75	SURFACE MOUNT MIXER- U/D CONVERT	4.00	EA	ADE-11MH-1	X1 X5 X6 X8	
76	TCXO 14.4Mhz 2.5ppm 5V SMT	1.00	EA	TCCTDCS 14.4 Mhz	X3	
77	PARTS LIST	1.00	EA	300GB23102		
78	C8051F015 (CYGNAL)	1.00	EA	C8051F015		