

Assembly 10303-000-009, Board, radio, M2000T, thru, 120 mW

Item	Part Number	Description	Type	Qty	Unit	Reference Designation
1.1.1.1	24082-377-045	Ind, airwound, 1.5 T, .082 ID, 24 AWG	p	1.	ea	L21
1.1.1.1	10000-376-035	Ind, molded, 220 nH, 10%	p	2.	ea	L8, L19
1.1.1.1	10000-376-008	Ind, molded, 390 nH, 10%	p	3.	ea	L31, L32, L34
1.1.1.1	10001-376-001	Ind, variable, 3.3 uH	p	2.	ea	L4, L5
1.1.1.1	10003-376-001	Ind, variable, quad discriminator, thru	p	1.	ea	L6
1.1.1.1	10004-341-055	Res, CF, 100, 5%, 1/8W	p	1.	ea	R72
1.1.1.1	10000-413-001	Trans, RF, NPN, MPS5179	p	4.	ea	Q3, Q6, Q11, Q12
1.1.1.1	10001-413-001	Trans, RF, NPN, MPS571	p	1.	ea	Q13
1.1.1.1	10002-413-001	Trans, RF, NPN, MPS501	p	4.	ea	Q1, Q2, Q4, Q10
1.1.1.1	10003-413-001	Trans, RF, NPN, MRF559	p	1.	ea	Q14
1.1.1.1	10004-413-001	Trans, Switching, NPN, 2N4124	p	2.	ea	Q6, Q8
1.1.1.1	10005-413-001	Trans, Switching, PNP, 2N4126	p	2.	ea	Q7, Q9
1.1.1.1	12014-341-055	Res, CF, 1.2k, 5%, 1/8W	p	2.	ea	R25, R49
1.1.1.1	15014-341-055	Res, CF, 1.5k, 5%, 1/8W	p	1.	ea	R10
1.1.1.1	18014-341-055	Res, CF, 1.8k, 5%, 1/8W	p	1.	ea	R12
1.1.1.1	10094-341-055	Res, CF, 10, 5%, 1/8W	p	6.	ea	R24, R26, R39, R46, R51, R52
1.1.1.1	10034-341-055	Res, CF, 100k, 5%, 1/8W	p	5.	ea	R18, R19, R32, R34, R57
1.1.1.1	10024-341-055	Res, CF, 10k, 5%, 1/8W	p	7.	ea	R1, R7, R20, R29, R33, R59, R61
1.1.1.1	12004-341-055	Res, CF, 120, 5%, 1/8W	p	1.	ea	R53
1.1.1.1	15024-341-055	Res, CF, 15k, 5%, 1/8W	p	2.	ea	R2, R8
1.1.1.1	18004-341-055	Res, CF, 180, 5%, 1/8W	p	1.	ea	R44
1.1.1.1	18024-341-055	Res, CF, 18k, 5%, 1/8W	p	1.	ea	R17
1.1.1.1	10014-341-055	Res, CF, 1.0k, 5%, 1/8W	p	1.	ea	R60
1.1.1.1	20024-341-055	Res, CF, 20k, 5%, 1/8W	p	2.	ea	R14, R17
1.1.1.1	22004-341-055	Res, CF, 220, 5%, 1/8W	p	1.	ea	R27
1.1.1.1	22024-341-055	Res, CF, 22k, 5%, 1/8W	p	2.	ea	R23, R38
1.1.1.1	27024-341-055	Res, CF, 27k, 5%, 1/8W	p	2.	ea	R4, R42
1.1.1.1	33014-341-055	Res, CF, 3.3k, 5%, 1/8W	p	2.	ea	R21, R35
1.1.1.1	39014-341-055	Res, CF, 3.9k, 5%, 1/8W	p	2.	ea	R41, R43
1.1.1.1	33024-341-055	Res, CF, 33k, 5%, 1/8W	p	1.	ea	R28
1.1.1.1	47014-341-055	Res, CF, 4.7k, 5%, 1/8W	p	2.	ea	R66, R70
1.1.1.1	10017-304-500	Cap, ceramic, .001 uf, +80/-20%, 50 V	p	7.	ea	C26, C32, C40, C50, C53, C77, C90
1.1.1.1	10027-304-500	Cap, ceramic, .01 uf, +80/-20%, 50 V	p	6.	ea	C3, C4, C28, C47, C82, C93
1.1.1.1	47027-304-500	Cap, ceramic, .047 uf, +80/-20%, 50 V	p	2.	ea	C10, C13
1.1.1.1	10037-304-500	Cap, ceramic, .1 uf, +80/-20%, 50 V	p	11.	ea	C12, 18, 21, 22, 24, 25, 27, 29, 45, 89, 88
1.1.1.1	15088-304-500	Cap, ceramic, 1.5 pf, +/- .25 pf, 50 V	p	2.	ea	C2, C6
1.1.1.1	10094-304-500	Cap, ceramic, 10 pf, 5%, 50 V	p	3.	ea	C8, C52, C56
1.1.1.1	12004-304-500	Cap, ceramic, 120 pf, 5%, 50 V	p	1.	ea	C34
1.1.1.1	15094-304-500	Cap, ceramic, 15 pf, 5%, 50 V	p	1.	ea	C15
1.1.1.1	10004-304-500	Cap, ceramic, 100 pf, 5%, 50 V	p	2.	ea	C31, C49
1.1.1.1	22088-304-500	Cap, ceramic, 2.2 pf, +/- .25 pf, 50 V	p	1.	ea	C9
1.1.1.1	22094-304-500	Cap, ceramic, 22 pf, 5%, 50 V	p	6.	ea	C30, C44, C48, C72, C94, C96
1.1.1.1	27094-304-500	Cap, ceramic, 27 pf, 5%, 50 V	p	1.	ea	C17
1.1.1.1	47088-304-500	Cap, ceramic, 4.7 pf, +/- .25 pf, 50 V	p	3.	ea	C1, C5, C74
1.1.1.1	47094-304-500	Cap, ceramic, 47 pf, 5%, 50 V	p	2.	ea	C19, C20
1.1.1.1	47004-304-500	Cap, ceramic, 470 pf, 5%, 50 V	p	6.	ea	C7, C38, C41, C43, C54, C62
1.1.1.1	56080-304-500	Cap, ceramic, 5.6 pf, +/- .25 pf, 50 V	p	2.	ea	C39, C76
1.1.1.1	68080-304-500	Cap, ceramic, 6.8 pf, +/- .25 pf, 50 V	p	2.	ea	C84, C85
1.1.1.1	68094-304-500	Cap, ceramic, 68 pf, 5%, 50 V	p	1.	ea	C42
1.1.1.1	02088-304-500	Cap, ceramic, 8.2 pf, +/- .25 pf, 50 V	p	2.	ea	C16, C55
1.1.1.1	82094-304-500	Cap, ceramic, 82 pf, 5%, 50 V	p	3.	ea	C64, C67, C11
1.1.1.1	10000-314-001	Cap, tantalum, 4.7 uf, 20%, 10 V, dipped	p	3.	ea	C66, C78, C87
1.1.1.1	10000-314-003	Cap, tantalum, 6.8 uf, 20%, 6 V, dipped	p	1.	ea	C23
1.1.1.1	10001-410-001	Diode, PIN, BA282	p	3.	ea	CR1, CR2, CR3
1.1.1.1	10002-410-001	Diode, Varactor, KVL310A-3	p	2.	ea	CR4, CR5
1.1.1.1	10000-383-001	Filter, crystal, 4 pole, 21.4 MHz	p	1.	pair	FL3/4
1.1.1.1	10000-385-001	Filter, ceramic, 4 pole, 455 kHz	p	1.	ea	FL5
1.1.1.1	24107-377-015	Ind, airwound, 1.5 T, .107 ID, 24 AWG	p	1.	ea	L2
1.1.1.1	24082-377-015	Ind, airwound, 1.5 T, .082 ID, 24 AWG	p	1.	ea	L15
1.1.1.1	24107-377-025	Ind, airwound, 2.5 T, .107 ID, 24 AWG	p	1.	ea	L28
1.1.1.1	24082-377-025	Ind, airwound, 2.5 T, .082 ID, 24 AWG	p	1.	ea	L3
1.1.1.1	24098-377-035	Ind, airwound, 3.5 T, .098 ID, 24 AWG	p	1.	ea	L14
1.1.1.1	24082-377-065	Ind, airwound, 6.5 T, .082 ID, 24 AWG	p	1.	ea	L20
1.1.1.1	24111-377-045	Ind, airwound, 4.5 T, .111 ID, 24 AWG	p	1.	ea	L22
1.1.1.1	47004-341-055	Res, CF, 470, 5%, 1/8W	p	4.	ea	R3, R9, R55, R71
1.1.1.1	47024-341-055	Res, CF, 47k, 5%, 1/8W	p	2.	ea	R22, R36
1.1.1.1	56004-341-055	Res, CF, 560, 5%, 1/8W	p	1.	ea	R50
1.1.1.1	68094-341-055	Res, CF, 68, 5%, 1/8W	p	2.	ea	R30, R48
1.1.1.1	68024-341-055	Res, CF, 68k, 5%, 1/8W	p	1.	ea	R13
1.1.1.1	82014-341-055	Res, CF, 8.2k, 5%, 1/8W	p	2.	ea	R15, R58
1.1.1.1	82004-341-055	Res, CF, 820, 5%, 1/8W	p	4.	ea	R5, R6, R40, R56
1.1.1.1	82024-341-055	Res, CF, 82k, 5%, 1/8W	p	2.	ea	R11, R16
1.1.1.1	10000-360-001	Res, variable, 10k, 10%, 1/2W, cermet	p	1.	ea	R65
1.1.1.1	10000-367-002	Thermistor, 12k, NTC, .1 dia	p	2.	ea	RT1, RT4
1.1.1.1	10000-367-004	Thermistor, 3k, NTC, .1 dia	p	2.	ea	RT2, RT5
1.1.1.1	10000-367-005	Thermistor, 150k, NTC, .1 dia	p	2.	ea	RT3, RT6
1.1.1.1	10014-415-001	IC, linear, +5 V regulator	p	2.	ea	U1, U3
1.1.1.1	10016-415-101	IC, linear, LM3361AM, smt	p	1.	ea	U2
1.1.1.1	10003-378-001	Crystal, 20.940 MHz, fund., 30 pf, UM-1	p	1.	ea	Y3
1.1.1.1	10103-005-001	PC board, radio, IC-15	p	1.	ea	(PC board)
1.1.1.1	10000-608-001	Jumper, flex, 8 cir	p	1.	ea	J2
1.1.1.1	10000-613-001	Socket, single contact, low-profile	p	4.	ea	(V1, V2 sockets)
1.1.1.1	66521-342-059	Res, MF, 66.5k, 1%, 1/8W	p	2.	ea	R62, R67
1.1.1.1	75011-342-059	Res, MF, 7.50k, 1%, 1/8W	p	2.	ea	R64, R69
1.1.1.1	37411-342-059	Res, MF, 3.74k, 1%, 1/8W	p	2.	ea	R63, R68

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1.1.1.1	10000-410-001	Diode, 1N914 or 1N4148	- - - - -	p	1.	ea	C86	-	-	-	-	-	-	-	-
1.1.1.1	47094-341-055	Res, CP, 47, 5%, 1/8W	- - - - -	p	1.	ea	R54	-	-	-	-	-	-	-	-
1.1.1.5	12088-304-500	Cap, ceramic, 1.2 pf, +/- .25 pf, 50 V	- - - - -	p	1.	ea	C35	-	-	-	-	-	-	-	-
1.1.1.6	08288-304-500	Cap, ceramic, .82 pf, +/- .25 pf, 50 V	- - - - -	p	1.	ea	C68	-	-	-	-	-	-	-	-
1.1.1.7	10088-304-500	Cap, ceramic, 1 pf, +/- .25 pf, 50 V	- - - - -	p	1.	ea	C92	-	-	-	-	-	-	-	-
1.1.1.8	15088-304-500	Cap, ceramic, 1.5 pf, +/- .25 pf, 50 V	- - - - -	p	1.	ea	C59	-	-	-	-	-	-	-	-
1.1.1.1	12094-304-500	Cap, ceramic, 12 pf, 5%, 50 V	- - - - -	p	1.	ea	C80	-	-	-	-	-	-	-	-
1.1.1.1	15094-304-500	Cap, ceramic, 15 pf, 5%, 50 V	- - - - -	p	6.	ea	C34, C36, C58, C60, C85, C97	-	-	-	-	-	-	-	-
1.1.1.1	22080-304-500	Cap, ceramic, 2.2 pf, +/- .25 pf, 50 V	- - - - -	p	1.	ea	C69	-	-	-	-	-	-	-	-
1.1.1.1	22094-304-500	Cap, ceramic, 22 pf, 5%, 50 V	- - - - -	p	4.	ea	C70, C81, C83, C86	-	-	-	-	-	-	-	-
1.1.1.1	33088-304-500	Cap, ceramic, 3.3 pf, +/- .25 pf, 50 V	- - - - -	p	1.	ea	C75	-	-	-	-	-	-	-	-
1.1.1.1	39088-304-500	Cap, ceramic, 3.9 pf, +/- .25 pf, 50 V	- - - - -	p	3.	ea	C37, C61, C90	-	-	-	-	-	-	-	-
1.1.1.1	47088-304-500	Cap, ceramic, 4.7 pf, +/- .25 pf, 50 V	- - - - -	p	1.	ea	C57	-	-	-	-	-	-	-	-
1.1.1.2	56080-304-500	Cap, ceramic, 5.6 pf, +/- .25 pf, 50 V	- - - - -	p	1.	ea	C65	-	-	-	-	-	-	-	-
1.1.1.2	68088-304-500	Cap, ceramic, 6.8 pf, +/- .25 pf, 50 V	- - - - -	p	2.	ea	C33, C51	-	-	-	-	-	-	-	-
1.1.1.2	82088-304-500	Cap, ceramic, 8.2 pf, +/- .25 pf, 50 V	- - - - -	p	1.	ea	C79	-	-	-	-	-	-	-	-
1.1.1.3	10000-384-001	Filter, helical, 2 pole, 460 MHz	- - - - -	p	1.	ea	FL1	-	-	-	-	-	-	-	-
1.1.1.3	10001-384-001	Filter, helical, 3 pole, 460 MHz	- - - - -	p	1.	ea	FL2	-	-	-	-	-	-	-	-
1.1.1.3	24116-377-015	Ind, airwound, 1.5 T, .116 ID, 24 AWG	- - - - -	p	1.	ea	L26	-	-	-	-	-	-	-	-
1.1.1.4	24086-377-015	Ind, airwound, 1.5 T, .086 ID, 24 AWG	- - - - -	p	1.	ea	L33	-	-	-	-	-	-	-	-
1.1.1.4	24107-377-025	Ind, airwound, 2.5 T, .107 ID, 24 AWG	- - - - -	p	4.	ea	L10, L11, L25, L29	-	-	-	-	-	-	-	-
1.1.1.4	24096-377-025	Ind, airwound, 2.5 T, .096 ID, 24 AWG	- - - - -	p	3.	ea	L12, L13, L24	-	-	-	-	-	-	-	-
1.1.1.4	24091-377-025	Ind, airwound, 2.5 T, .094 ID, 24 AWG	- - - - -	p	1.	ea	L23	-	-	-	-	-	-	-	-
1.1.1.4	24120-377-025	Ind, airwound, 2.5 T, .120 ID, 24 AWG	- - - - -	p	2.	ea	L1, L27	-	-	-	-	-	-	-	-
1.1.1.5	24091-377-065	Ind, airwound, 6.5 T, .094 ID, 24 AWG	- - - - -	p	1.	ea	L9	-	-	-	-	-	-	-	-
1.1.1.5	10002-376-001	Ind, variable, 730 nH, 20%	- - - - -	p	2.	ea	L7, L18	-	-	-	-	-	-	-	-
1.1.1.7	22004-341-055	Res, CF, 220, 5%, 1/8W	- - - - -	p	1.	ea	R45	-	-	-	-	-	-	-	-
1.1.1.1	24096-377-015	Ind, airwound, 1.5 T, .096 ID, 24 AWG	- - - - -	p	1.	ea	L30	-	-	-	-	-	-	-	-
1.1.1.1	24091-377-015	Ind, airwound, 1.5 T, .094 ID, 24 AWG	- - - - -	p	1.	ea	L35	-	-	-	-	-	-	-	-
1.1.37	10005-606-001	Conn, BNC, PC mount, right angle	- - - - -	p	1.	ea	J1	-	-	-	-	-	-	-	-
1.2.114	10027-304-500	Cap, ceramic, .01 uf, +80/-20%, 50 V	- - - - -	p	1.	ea	C71	-	-	-	-	-	-	-	-
116	00001-340-001	Res, 1/4 watt, factory choice	- - - - -	p	1.	ea	r73	-	-	-	-	-	-	-	-
117	10017-415-001	IC, linear, +5 V reg, 1AMP, TO-220	- - - - -	p	1.	ea	u4	-	-	-	-	-	-	-	-

MONICOR ELECTRONIC CORP.
FCC ID: GES4BAM2000T
EXHIBIT #: 5C

Assembly 10302-000-001, Board, Modem, IC-15-48

Item	Part Number	Description	Type	Qty	Unit	Reference Designation
1.1.1	10027-304-500	Cap, ceramic, .01 uf, +80/-20%, 50 V	p	7.	ea	C2, C3, C10, C11, C20, C27, C31
1.1.2	10037-304-500	Cap, ceramic, .1 uf, +80/-20%, 50 V	p	7.	ea	C4, C5, C23, C25, C26, C30, C38
1.1.3	10014-304-500	Cap, ceramic, .001 uf, 5%, 50 V	p	1.	ea	C13
1.1.4	12014-304-500	Cap, ceramic, .0012 uf, 5%, 50 V	p	2.	ea	C14, C16
1.1.6	27004-304-500	Cap, ceramic, 270 pf, 5%, 50 V	p	2.	ea	C15, C17
1.1.7	33054-304-500	Cap, ceramic, 33 pf, 5%, 50 V	p	2.	ea	C6, C7
1.1.8	10000-314-001	Cap, tantalum, 4.7 uf, 20%, 10 V, dipped	p	1.	ea	C32
1.1.9	10000-314-002	Cap, tantalum, 4.7 uf, 20%, 16 V, dipped	p	4.	ea	C33, C34, C35, C36
1.1.12	10004-378-001	Crystal, 7.3728 MHz, fud, 16 pf, CSA-309	p	1.	ea	Y1
1.1.13	10000-410-001	Diode, 1N914 or 1N4148	p	3.	ea	D1, D2, D3
1.1.15	10000-415-001	IC, logic, 74HC04	p	1.	ea	U9
1.1.16	10001-415-001	IC, logic, 74HC08	p	1.	ea	U8
1.1.17	10002-415-001	IC, logic, 74HC32	p	1.	ea	U7
1.1.18	10003-415-001	IC, logic, 74HC4066	p	1.	ea	U15
1.1.19	10004-415-001	IC, logic, 74HC244	p	1.	ea	U5
1.1.20	10007-415-001	IC, logic, 74HC373	p	1.	ea	U6
1.1.21	10005-415-001	IC, logic, 74HC393	p	1.	ea	U10
1.1.22	10006-415-001	IC, micro, 80C31BH	p	1.	ea	U1
1.1.23	10023-415-001	IC, Memory, 32Kx8 CMOS RAM, .3 wide DIP	p	1.	ea	U2
1.1.24	10013-415-001	IC, linear, MC33174P	p	2.	ea	U11, U12
1.1.25	10010-415-001	IC, interface, MAX232CPE	p	1.	ea	U14
1.1.26	10011-415-001	IC, logic, HD3-6409-9	p	1.	ea	U16
1.1.27	10014-415-001	IC, linear, +5 V regulator	p	1.	ea	U17
1.1.28	10012-415-001	IC, memory, 93C46, EEPROM	p	1.	ea	U4
1.1.29	10015-415-001	IC, linear, ICL7665ACPA	p	1.	ea	U13
1.1.32	10102-005-002	PC board, modem w/options	p	1.	ea	-
1.1.34	33044-341-055	Res, CF, 3.3k, 5%, 1/8W	p	1.	ea	R34
1.1.35	22004-341-055	Res, CF, 220, 5%, 1/8W	p	2.	ea	R42, R43
1.1.36	22024-341-055	Res, CF, 22k, 5%, 1/8W	p	1.	ea	R6
1.1.37	56004-341-055	Res, CF, 560, 5%, 1/8W	p	2.	ea	R30, R27
1.1.38	39024-341-055	Res, CF, 39k, 5%, 1/8W	p	1.	ea	R2
1.1.39	47024-341-055	Res, CF, 47k, 5%, 1/8W	p	1.	ea	R13
1.1.41	68024-341-055	Res, CF, 68k, 5%, 1/8W	p	1.	ea	R25
1.1.42	10034-341-055	Res, CF, 100k, 5%, 1/8W	p	6.	ea	R23, R24, R3, R1, R5, R21
1.1.43	15034-341-055	Res, CF, 150k, 5%, 1/8W	p	1.	ea	R22
1.1.44	22034-341-055	Res, CF, 220k, 5%, 1/8W	p	4.	ea	R4, R31, R40, R44
1.1.45	33014-341-055	Res, CF, 3.3k, 5%, 1/8W	p	1.	ea	R41
1.1.46	47014-341-055	Res, CF, 4.7k, 5%, 1/8W	p	1.	ea	R35
1.1.47	49921-342-059	Res, MF, 49.9k, 1%, 1/8W	p	1.	ea	R33
1.1.48	10031-342-059	Res, MF, 100k, 1%, 1/8W	p	1.	ea	R36
1.1.49	22631-342-059	Res, MF, 226k, 1%, 1/8W	p	2.	ea	R37, R32
1.1.50	10001-613-001	Socket, 8 contacts, single row	p	1.	ea	J2
1.1.51	10000-419-001	Socket, 28 pin, DIP, low-profile	p	1.	ea	U3
1.1.53	10001-608-022	Wire, BTC, 22 AWG	p	0.1500	in	JP1, JP3, JP4
1.11	10000-390-001	LED, red, T1, low current, pc mount	p	1.	ea	D5
1.12	10000-390-002	LED, green, T1, low current, pc mount	p	1.	ea	D6
1.13	10006-606-002	Header, 2 circuit, right angle, .1 in	p	1.	ea	J1
1.15	10007-606-001	Conn, D-Sub, 9 cir, .318 right angle, PC	p	1.	ea	J3
1.51	10000-616-001	Switch, toggle, SPDT, 2 A, 28 VDC, PCmt	p	1.	ea	SW1
1.52	10001-608-022	Wire, BTC, 22 AWG	p	0.0500	in	F1
1.55	10014-606-001	Header, 3 circuit, .1 in	p	1.	ea	JP6
2.1	62004-304-500	Cap, ceramic, 620 pf, 5%, 50 V	p	1.	ea	C12
2.2	15004-304-500	Cap, ceramic, 150 pf, 5%, 50 V	p	1.	ea	C24
2.3	22024-341-055	Res, CF, 22k, 5%, 1/8W	p	1.	ea	R7
2.4	39024-341-055	Res, CF, 39k, 5%, 1/8W	p	1.	ea	R10
2.5	12024-341-055	Res, CF, 12k, 5%, 1/8W	p	1.	ea	R11
2.6	15024-341-055	Res, CF, 15k, 5%, 1/8W	p	3.	ea	R12, R20, R26
2.7	15034-341-055	Res, CF, 150k, 5%, 1/8W	p	1.	ea	R45
2.8	10001-608-022	Wire, BTC, 22 AWG	p	0.0500	in	JP2 (2-3)

(cont)