

BILL OF MATERIAL

Item	Position	Quantity	Description	Manufacturer	Part No.	McM Part No.	
1	C21-2	1	Capacitor, 4.5-20p	Murata	TZV02R200A110		
2	C12, 20-2	2	Capacitor, 10p	Murata	GRM39C0G3R9C50		
4	C19, 22-2	1	Capacitor, 56p, 5%	Murata	GRM39C0G560J50		
5	C1-2	1	Capacitor, 1n, 10%	Murata	GRM39X7R102K50		
6	C5-2	1	Capacitor, 10n, 10%	Murata	GRM39X7R103K50		
7	C2, 3, 4, 6, 7, 8, 9, 10, 11, 13, 14, 17, 18, 24, 26-2	15	Capacitor, 100n, 10%	Murata	GRM39X7R104K16		
8	C15, 16-2	2	Capacitor, 4u7, 10%	Murata	GRM42_6X5R475K16		
9	C23, 25-2	2	(No Connect) Capacitor 0603				
10	X1-2	1	Crystal, 18.432MHz, 30ppm	Mercury Utd.	M49-18.432-30pF_10/30/-10+/70		
11	L1, 2, 3, 4-2	4	Inductor 68uH	KOA	LPC4045TED680K		
12	D23	1	Diode, Zener 5V1	Philips	BZX84-B5V1		
13	D1, 2-2	2	Diode, Schottky	Philips	BAT54		
14	D21, 22-2	2	Diode SOT23 Si, high-speed	Philips	BAS16		
15	D3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20-2	18	Diode, Light Emitting, Yellow/Green	Citizen	CL-170YG-CD-T		
16	J3-2	1	Header, 2pin shrouded, 1.25mm	Molex	530470210		
17	J20-2	1	(No Connect) 1 x 6				
18	J1-2	1	Header, 34way, 2mm pitch shrouded, notch polarised	Plastron	SMBH-34-B		
19	J23-2	1	ZIF FFC connector, 18way x 1mm, SMT	Connexcon	CF07181U0T0		
20	Q2, 3, 4, 5, 7, 8, 9, 10, 12-2	9	Transistor, NPN	Philips	BC847B		
21	Q1, 6-2	2	Transistor, PNP	Philips	BC857B		
22	Q13-2, Q14	2	Transistor, NPN 1A, 45V, 1.5W	Philips	BCP54-B		
23	R12-2	1	Resistor, 100k NTC, 5%	Murata	NCP21WF104J03RA		
24	R7, 9, 14, 19, 95, 96, 97, 98-2	8	Resistor, 100R, 1%	Philips	232270461001		
25	R26, 27, 28, 29, 30, 31, 32, 33, 34, 108, 109, 110, 111, 112, 113-2	15	Resistor, 220R, 1%	Philips	232270462201		
26	R25, 43, 54, 64, 65, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 84, 85, 86, 87, 88, 89, 90, 99, 107-2	27	Resistor, 1k, 1%	Philips	232270461002		
27	R4, 5-2	2	Resistor, 2k2, 1%	Philips	232270462202		
28	R1, 2, 22, 23, 24, 35, 36, 37, 38, 39, 40, 41, 42, 44, 46, 48, 51, 52, 53, 55, 56, 57, 58, 59, 60, 61, 63, 66, 67, 68, 69, 94, 102, 130, 104, 105, 114-2	37	Resistor, 10k, 1%	Philips	232270461003		
29	R47, 49-2	2	Resistor, 39k, 1%	Philips	223270463903		
30	R3, 6, 8, 10, 11, 13, 17, 83, 92, 93, 106-2	11	Resistor, 100k, 1%	Philips	223270461004		
31	R15, 16, 18, 20, 21, 62-2	6	Resistor, 470k, 1%	Philips	232270464704		
32	R45-2	1	Resistor, potentiometer, 10k log	Taiwan Alpha Electr	RV110-40-25A-A14		
33	R50-2	1	Resistor, potentiometer, 10k lin	Taiwan Alpha Electr	RV110-40-25A-B14		
34	R100, 101-2	2	(No Connect) resistor 0603				
35	U1, 3-2	2	Integrated circuit, hex inverting buffer	Philips	74HC04D		
36	U5-2	1	Integrated circuit, 3-8 decoder	Philips	74HC238D		
37	U6-2	1	Integrated circuit, 8kbyte FRAM	Ramtron	FM1608-120-S		
38	U4-2	1	Microcontroller 16bit, 20MHz	Hitachi	HD64F2134FA20		
39	U2-2	1	Voltage regulator, +5V	Motorola	MC78M05CDT		
40	LCD1	1	LCD + flat flexible cable assembly			84-749	
ENG APP.		CHANGE	DATE	ISSUE	TITLE	DRAWING NO.	SHEET
ORH		C2063	06/12/01	1	DSC VHF AUDIO & CONTROL BOARD	84-510L	1 OF 2
CHECKED		C2092	04/02/02	2			
NT		C2133	21/03/02				
DRAWN		C2161	23/04/02				
JM		C2172	02/05/02				
		C2198	12/06/02	3			



