Masters Communications SC-75DW Parts List Sorted for Assembly

1/8w Resistors

Value Designations 100 R6,R47 220 R2,R12,R19,R20 680 R28,R49 1,000 R25,R30,R31,R35,R41,R42,R44,R46,R48,R51,R58 1,500 R16,R40 2,200 R3 2,700 R36 3,300 R9,R15,R27 4,700 R1 5,100 R10 6,800 R22,R34 10,000 R4,R5,R7,R8,R17,R21,R32,R45,R52,R53,R56,R57 12,000 R33 15,000 R37 33,000 R11 47,000 R14,R23,R24,R38 100,000 R13 150,000 R26,R29 220,000 R18,R43 560,000 R55 820,000 R39,R54 1,000,000 R50		
220 R2,R12,R19,R20 680 R28,R49 1,000 R25,R30,R31,R35,R41,R42,R44,R46,R48,R51,R58 1,500 R16,R40 2,200 R3 2,700 R36 3,300 R9,R15,R27 4,700 R1 5,100 R10 6,800 R22,R34 10,000 R4,R5,R7,R8,R17,R21,R32,R45,R52,R53,R56,R57 12,000 R33 15,000 R37 33,000 R11 47,000 R14,R23,R24,R38 100,000 R13 150,000 R26,R29 220,000 R18,R43 560,000 R55 820,000 R39,R54	Value	Designations
680 R28,R49 1,000 R25,R30,R31,R35,R41,R42,R44,R46,R48,R51,R58 1,500 R16,R40 2,200 R3 2,700 R36 3,300 R9,R15,R27 4,700 R1 5,100 R10 6,800 R22,R34 10,000 R4,R5,R7,R8,R17,R21,R32,R45,R52,R53,R56,R57 12,000 R33 15,000 R37 33,000 R11 47,000 R14,R23,R24,R38 100,000 R13 150,000 R26,R29 220,000 R18,R43 560,000 R55 820,000 R39,R54	100	R6,R47
1,000 R25,R30,R31,R35,R41,R42,R44,R46,R48,R51,R58 1,500 R16,R40 2,200 R3 2,700 R36 3,300 R9,R15,R27 4,700 R1 5,100 R10 6,800 R22,R34 10,000 R4,R5,R7,R8,R17,R21,R32,R45,R52,R53,R56,R57 12,000 R33 15,000 R37 33,000 R11 47,000 R14,R23,R24,R38 100,000 R13 150,000 R26,R29 220,000 R18,R43 560,000 R55 820,000 R39,R54	220	R2,R12,R19,R20
1,500 R16,R40 2,200 R3 2,700 R36 3,300 R9,R15,R27 4,700 R1 5,100 R10 6,800 R22,R34 10,000 R4,R5,R7,R8,R17,R21,R32,R45,R52,R53,R56,R57 12,000 R33 15,000 R37 33,000 R11 47,000 R14,R23,R24,R38 100,000 R13 150,000 R26,R29 220,000 R18,R43 560,000 R55 820,000 R39,R54	680	R28,R49
2,200 R3 2,700 R36 3,300 R9,R15,R27 4,700 R1 5,100 R10 6,800 R22,R34 10,000 R4,R5,R7,R8,R17,R21,R32,R45,R52,R53,R56,R57 12,000 R33 15,000 R37 33,000 R11 47,000 R14,R23,R24,R38 100,000 R13 150,000 R26,R29 220,000 R18,R43 560,000 R55 820,000 R39,R54	1,000	R25,R30,R31,R35,R41,R42,R44,R46,R48,R51,R58
2,700 R36 3,300 R9,R15,R27 4,700 R1 5,100 R10 6,800 R22,R34 10,000 R4,R5,R7,R8,R17,R21,R32,R45,R52,R53,R56,R57 12,000 R33 15,000 R37 33,000 R11 47,000 R14,R23,R24,R38 100,000 R13 150,000 R26,R29 220,000 R18,R43 560,000 R55 820,000 R39,R54	1,500	R16,R40
3,300 R9,R15,R27 4,700 R1 5,100 R10 6,800 R22,R34 10,000 R4,R5,R7,R8,R17,R21,R32,R45,R52,R53,R56,R57 12,000 R33 15,000 R37 33,000 R11 47,000 R14,R23,R24,R38 100,000 R13 150,000 R26,R29 220,000 R18,R43 560,000 R55 820,000 R39,R54	2,200	R3
4,700 R1 5,100 R10 6,800 R22,R34 10,000 R4,R5,R7,R8,R17,R21,R32,R45,R52,R53,R56,R57 12,000 R33 15,000 R37 33,000 R11 47,000 R14,R23,R24,R38 100,000 R13 150,000 R26,R29 220,000 R18,R43 560,000 R55 820,000 R39,R54	2,700	R36
5,100 R10 6,800 R22,R34 10,000 R4,R5,R7,R8,R17,R21,R32,R45,R52,R53,R56,R57 12,000 R33 15,000 R37 33,000 R11 47,000 R14,R23,R24,R38 100,000 R13 150,000 R26,R29 220,000 R18,R43 560,000 R55 820,000 R39,R54	3,300	R9,R15,R27
6,800 R22,R34 10,000 R4,R5,R7,R8,R17,R21,R32,R45,R52,R53,R56,R57 12,000 R33 15,000 R37 33,000 R11 47,000 R14,R23,R24,R38 100,000 R13 150,000 R26,R29 220,000 R18,R43 560,000 R55 820,000 R39,R54	4,700	R1
10,000 R4,R5,R7,R8,R17,R21,R32,R45,R52,R53,R56,R57 12,000 R33 15,000 R37 33,000 R11 47,000 R14,R23,R24,R38 100,000 R13 150,000 R26,R29 220,000 R18,R43 560,000 R55 820,000 R39,R54	5,100	R10
12,000 R33 15,000 R37 33,000 R11 47,000 R14,R23,R24,R38 100,000 R13 150,000 R26,R29 220,000 R18,R43 560,000 R55 820,000 R39,R54	6,800	R22,R34
15,000 R37 33,000 R11 47,000 R14,R23,R24,R38 100,000 R13 150,000 R26,R29 220,000 R18,R43 560,000 R55 820,000 R39,R54	10,000	R4,R5,R7,R8,R17,R21,R32,R45,R52,R53,R56,R57
33,000 R11 47,000 R14,R23,R24,R38 100,000 R13 150,000 R26,R29 220,000 R18,R43 560,000 R55 820,000 R39,R54	12,000	R33
47,000 R14,R23,R24,R38 100,000 R13 150,000 R26,R29 220,000 R18,R43 560,000 R55 820,000 R39,R54	15,000	R37
100,000 R13 150,000 R26,R29 220,000 R18,R43 560,000 R55 820,000 R39,R54	33,000	R11
150,000 R26,R29 220,000 R18,R43 560,000 R55 820,000 R39,R54	47,000	R14,R23,R24,R38
220,000 R18,R43 560,000 R55 820,000 R39,R54	100,000	R13
560,000 R55 820,000 R39,R54	150,000	R26,R29
820,000 R39,R54	220,000	R18,R43
·	560,000	R55
1,000,000 R50	820,000	R39,R54
	1,000,000	R50

58 resistors

Diodes and LEDs

Banded ends of diodes to square pads.

Short leads of LEDs to square pads.

Description	Designations
1N4004	D7
1N4148	D1,D2,D3,D4,D5,D6,D8
Blue 3mm	LED1
Yellow 3mm	LED2
Green 3mm	LED3
Red 3mm	LED4

Transistors and Voltage Regulators

Align with outline on circuit board.

Part #	Designations
2N2222	Q1,Q2,Q3,Q7,Q8,Q9,Q11
2N2907	Q4,Q5,Q6,Q10
78L05	U2
78L09	U1

Capacitors

Positive ends of tantalum and electrolytic components to square pads.

rositive ends or tantarum and electrorytic	components to square paus.			
Value and Description	Designations			
18pF silver mica	C21			
33pF silver mica	C22			
47pF (small ceramic marked 47)	C29,C33,C34,C39			
82pF silver mica (marked 820)	C10			
100pF silver mica (small)	C6			
220pF (yellow ceramic marked 221)	C12,C17			
0.001uF (blue ceramic marked 102)	C13			
0.0022uF (orange ceramic marked 222)	C16			
0.01uF (blue or yellow ceramic marked 103)	C11,C15,C40			
0.022uF (ceramic marked 223)	С3			
0.033uF (ceramic marked 333)	C4			
0.1uF (yellow ceramic marked 104)	C2,C9,C25,C26			
0.12uF (brown marked 124)	C30,C31,C32,C35,C36,C37			
0.22uF (blue marked 224)	C28			
0.47uF (yellow marked 474)	C23,C27,C38			
1.0uF 35V tantalum (yellow marked 105)	C18			
1.0uF (yellow ceramic marked 105)	C7			
1.5uF 35V tantalum (yellow marked 155)	C19			
2.2uF electrolytic	C8			
3.3uF electrolytic	C20			
4.7uF electrolytic	C24			
10.0uF electrolytic	C5,C14			
22.0uF electrolytic	C1			
40 capacitors Flootrolytic caps installed last				

⁴⁰ capacitors. Electrolytic caps installed last.

Miscellaneous Parts

DIP switch "ON" towards DB25F connector.

Description	Desig.
6 position header (blue)	н1
6 position DIP switch (red)	S1
3 position header (blue) with shorting jumper	SJ1-2
3 position header (yellow) with shorting jumper	SJ3-4
2 position header (white) with shorting jumper	SJ5
2 position header (red) with shorting jumper	SJ6
10k multi-turn potentiometer (blue)	
4.000 MHz crystal	
DB25F connector	