

Masters Communications SC-75 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

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.

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)	C3
0.033uF (ceramic marked 333)	C4
0.1uF (yellow ceramic marked 104)	C2, C9
0.12uF (brown marked 124)	C25, C26, 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. Electrolytic caps installed last.

Miscellaneous Parts

DIP switch "ON" towards DB25F connector.

Description	Desig.
6 position header (blue)	H1
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)	VR1
4.000 MHz crystal	X1
DB25F connector	DB25F