

Part Number	Part Number/Description	Package	Value	Qty	Reference Designator
1	Ceramic Monolithic Capacitor, 25v	805	0.001	4	C21, C22, C35, C47
2	Ceramic Monolithic Capacitor, 25v	805	0.01	5	C24, C26, C33, C37, C45
3	Ceramic Monolithic Capacitor, 25v	805	0.047	1	C19
4	Ceramic Monolithic Capacitor, 25v	805	0.1	17	C10, C11, C17, C23, C28, C29, C30, C38, C39, C42, C44, C48, C49, C101, C102, C106, C13, C14, C20, C32,
5	Ceramic Monolithic Capacitor, 25v	805	1	6	C40, C43
6	Ceramic Monolithic Capacitor, 200v NP0	1206	1000p	1	C1
7	Ceramic Monolithic Capacitor, 25v	805	100p	2	C18, C103
8	Ceramic Monolithic Capacitor, 200v NP0	1206	1800p	3	C2, C15, C50
9	Ceramic Monolithic, 25v	805	220p	1	C36
10	Ceramic Monolithic, 200v NP0	1206	330p	1	C46
11	Ceramic Monolithic Capacitor, 200v NP0	1206	3300p	1	C3
12	Ceramic monolithic, 100v NP0	805	3300p	2	C7, C8

13	ceramic monolithic, 100v, NP0		805 390p	2 C6, C9
14	Ceramic monolithic, 100v NP0		805 470p	2 C12, C27
15	Ceramic Monolithic, 25v		805 47p	1 C34
16	Crystal	4-SMD	27M	1 X4
			Total	50

Part Number	Part Number/Description	Package	Value	Qty	Ref Des
17	Resistor, Metal Film, 1/4W 5%	805	47	1	R31
18	Resistor, Metal Film, 1/4W 5%	805	100	1	R42
19	Resistor, Metal Film, 1/4W 5%	805	180	1	R24
20	Resistor, Metal Film, 1/4W 5%	805	220	2	R13, R55
21	Resistor, Metal Film, 1/4W 5%	805	360	1	R17
22	Resistor, Metal Film, 1/4W 5%	805	390	1	R54
23	Resistor, Metal Film, 1/4W 5%	805	470	4	R57, R58
24	Resistor, Metal Film, 1/4W 5%	805	680	2	R26, R56
25	Resistor, Metal Film, 1/4W 5%	805	1.0k	16	R1, R3, R6, R8, R9, R12, R14, R27, R28, R29, R39, R43, R52, R104, R105, R107 R37, R46,
26	Resistor, Metal Film, 1/4W 5%	805	1.0M	3	R49
27	Resistor, Metal Film, 1/4W 5%	805	100k	2	R34, R106 R4, R10, R16, R19, R21, R23, R33, R35, R38, R40, R45, R48,
28	Resistor, Metal Film, 1/4W 5%	805	10k	14	R102, R103
29	Resistor, Metal Film, 1/4W 5%	805	150k	1	R50 R18, R22,
30	Resistor, Metal Film, 1/4W 5%	805	18k	3	R30
31	Resistor, Metal Film, 1/4W 5%	805	2.2k	1	R20
32	Resistor, Metal Film, 1/4W 5%	805	2.7k	1	R32
33	Resistor, Metal Film, 1/4W 5%	805	220k	1	R108
34	Resistor, Metal Film, 1/4W 5%	805	22k	1	R41
35	Resistor, Metal Film, 1/4W 5%	805	27k	1	R44
36	Resistor, Metal Film, 1/4W 5%	805	30k	1	R15
37	Resistor, Metal Film, 1/4W 5%	805	36k	1	R7
38	Resistor, Metal Film, 1/4W 5%	805	39k	1	R101
39	Resistor, Metal Film, 1/4W 5%	805	75k	1	R5
Total				61	

Part Number	Part Number/Description	Package	Value	Qty	Ref Des
39	1N914	SOD-80	1N4148W SF-7	9	D1, D2, D3, D4, D7, D8, D9, D10, D101
40	MMBT3904	SOT-23-3	MMBT390 4	8	Q4, Q9, Q16, Q17, Q101, Q102, Q103, Q104
41	2N7002	SOT-23-3	2N7002	5	Q5, Q6, Q7, Q8, Q14
42	MMBT3906	SOT-23-3	MMBT390 6	2	Q10, Q13
43	NJM2113	SOIC-8	NJM2113	1	U1
44	TLC274	SOIC-14	TLC274BID	1	U2 U4, U7,
45	LM317L	SOT-89-3	LM317LCP	3	U9
46	Si5351	10-MSOP	SI5351A-B-	1	U6
47	74AC04	SOIC-14	SN74AC04	1	U8
			Total	31	

Qty	Description
1	14-DIP Socket
3	Heat Sink
3	Heat Sink Pads
1	5.5x2.1mm power plug
11	6-32x3/8 black round head screw
4	6-32x0.25x1.5" aluminum hex standoff
4	6-32x 0.25 spacer
4	6-32x5/8" black round head screw
4	4-40x 5/8" round head screw
7	6-32 hex nut
4	#4x1/4" nylon spacer
4	4-40 nylon hex nut
1	LED holder
1	large knob
2	small knob
7	#6 flat washer
7	#6 lock washer
4	rubber feet
1	6", 6-conductor ribbon cable
6'	22 AWG magnet wire
1	microphone
1	Speaker
1	4 digit LED display

Hand-Install

Qty	Value	Ref Des	Type
2	10u	C5, C104	Electrolytic
2	2200u	C16, C25	Electrolytic
2	100u	C31, C41	Electrolytic
1	LED	D5	T 1-3/4
1	SB240	D6	axial
1	BNC	J1	BNC
1	Power Jack	J2	5.5x2.1mm
2	Audio Jack	J3, J4	3.5mm
2	T50-2	L1, L2	red toroid
2	T50-6	L3, L4	yellow toroid
2	IRF510	Q1, Q12	TO-220
1	ZVN3310A	Q2	TO-92
3	FQP7P06	Q3, Q11, Q15	TO-220
2	50k	R11, R25	Potentiometer
1	Power	SW1	SPDT
1	Rotary Encoder	SW2	
1	TA7642	U3	TO-92
1	PIC16F18324-I/P	U5	DIP-14
3	2.0M	X1, X2, X3	Ceramic
31			

Hand-Install

Qty	Part
1	14-DIP Socket
3	Heat Sink
3	Heat Sink Pads
1	5.5x2.1mm power plug
11	6-32x3/8 black round head screw
4	6-32x0.25x1.5" aluminum hex standoff
4	6-32x 0.25 spacer
4	6-32x5/8" black round head screw
4	4-40x 5/8" round head screw
7	6-32 hex nut
4	#4x1/4" nylon spacer
4	4-40 nylon hex nut
1	LED holder
1	large knob
2	small knob
7	#6 flat washer
7	#6 lock washer
4	rubber feet
1	6", 4-conductor ribbon cable
1	12" 22 AWG stranded
6'	22 AWG magnet wire
1	microphone
1	Speaker
1	4 digit LED display

77