Id Designator	Package	Quantity Designation
30 C12,C13	C_0805_HandSoldering	2 22pF
33 C9,C10	C_0805_HandSoldering	2 100nF
42 C19	C_Disc_D3_P2.5	1 22nF
10 C3,C5,C23,C16,C17,C21,C22,C20	C_Disc_D3_P2.5	8 100nF
8 C1	C_Radial_D5_L6_P2.5	1 220uF-50V
9 C2,C15	C_Radial_D5_L6_P2.5	2 220F-25V
11 C4	C_Radial_D5_L6_P2.5	1 470uF-25V
12 C6,C7	C_Radial_D5_L6_P2.5	2 10uF-25V
48 C18	C_Rect_L7_W2_P5	1 100nF
45 C11	C_Rect_L7_W2.5_P5	1 100nF
7 Y1	Crystal_HC52-U_Vertical	1 16MHz
13 D1	Diode_Bridge_18.5x5.5	1 Diode_Bridge
14 D5	Diode_DO-201AD_Horizontal_RM15	1 1N5402
35 D7	Diode_DO-35_SOD27_Horizontal_RM10	1 1N4001
38 D8,D9,D10,D11	Diode_DO-35_SOD27_Horizontal_RM10	45.1V
3 U6,U5	DIP-14_W7.62mm_LongPads	2 LM324N
6 IC1	DIP-28_W7.62mm_LongPads	1 ATMEGA328-P
2 HS1,HS2	Heatsink_Stonecold_HS-132_32x14mm_2xFixation1.5mm	2 HEATSINK
31 D2,D3,D4,D6	LED-3MM	4 Led_Small
22 U3	PDIP-8	1 ICL7660
15 P1	PhoenixContact_MCV-G_02x5.08mm_Vertical	112VAC
4 P2	PhoenixContact_MCV-G_02x5.08mm_Vertical	1 NGUON
16 P3	PhoenixContact_MCV-G_02x5.08mm_Vertical	1 SAC
17 P4	PhoenixContact_MCV-G_05x5.08mm_Vertical	1 12N60C
18 P5	Pin_Header_Straight_1x02	1 CONN_01X02
29 P7	Pin_Header_Straight_1x04	1 UART
20 RV1	Potentiometer_Bourns_3296W_3-8Zoll_Inline_ScrewUp	1 10k
21 RV2	Potentiometer_Bourns_3296W_3-8Zoll_Inline_ScrewUp	1 20k
43 R2,R3	R_0805_HandSoldering	2 10k
19 R9,R10,R11,R12,R13,R14,R15,R16,R17,R18	R_2512_HandSoldering	10 0.5R
47 R29	Resistor_Horizontal_RM15mm	1 10k
46 R30	Resistor_Horizontal_RM15mm	1 180k
41 R33	Resistor_Horizontal_RM7mm	1 180k
40 R36,R24,R28,R31	Resistor_Horizontal_RM7mm	4 330R

36 R38,R34,R35,R41,R45,R46,R20,R21,R26,R32,R8 Resistor Horizontal RM7mm 11 10k	
22 13 (Colored In 1997) 12 Colored In 1997 12 C	
5 R39,R27,R1,R23,R42,R43,R4 Resistor_Horizontal_RM7mm 7 1k	
39 R40,R22,R44,R5,R6,R19 Resistor_Horizontal_RM7mm 6 470R	
44 R7 Resistor_Horizontal_RM7mm 1 10uH	
34 VR1,VR2 RV_Disc_D15.5_W3.9_P7.5 2 14D4	70K
32 SW1 SW_PUSH_6mm 1 reset	
23 U1,U7 TO-220 2 LM78	12CT
24 U2 TO-220 1 LM78	05CT
49 Q1,Q2,Q3 TO-92_Molded_Narrow 3 Q_NF	N_BCE
TO-92_Molded_Narrow 1 TL433	1
1 R51,R49,R50,R47,R48,R52,R55,R53,R54,R56,R57 WireConnection_0.80mmDrill 11 0R	
26 P8 XH2.54-2P 1 FAN	
28 P10 XH2.54-4P 1 relay	
27 P9 XH2.54-4P 17-seg	
25 P6 XH2.54-8P 1 buttor	า