















Comment	Description	Designator	LibRef	Quantity	Value
Res1	Resistor	R14	Res1	1	480
Res1	Resistor	R13	Res1	1	480
Res1	Resistor	R11	Res1	1	480
Res1	Resistor	R10	Res1	1	480
Res1	Resistor	R4	Res1	1	480
Res1	Resistor	R3	Res1	1	480
Cap2	Capacitor	C3	Cap2	1	330uF
Cap2	Capacitor	C1	Cap2	1	100uF
Cap2	Capacitor	C4	Cap2	1	100nF
Res1	Resistor	R19	Res1	1	33K
Res1	Resistor	R16	Res1	1	33K
Res1	Resistor	R8	Res1	1	33K
Res1	Resistor	R17	Res1	1	10K
Res1	Resistor	R12	Res1	1	10K
Res1	Resistor	R5	Res1	1	10K
Res1	Resistor	R18	Res1	1	4.7K
Res1	Resistor	R15	Res1	1	4.7K
Res1	Resistor	R7	Res1	1	4.7K
Res1	Resistor	R2	Res1	1	4.7K
Res1	Resistor	R1	Res1	1	4.7K
Res1	Resistor	R6	Res1	1	2.2K
Cap2	Capacitor	C5	Cap2	1	1uF
Cap2	Capacitor	C2	Cap2	1	1uF
Res1	Resistor	R9	Res1	1	1K
XTAL	Crystal Oscillator	Y1	XTAL	1	***
	SIMPLE SWITCHER® Power Converter 150 KHz 3A Step- Down Voltage Regulator, 5-pin TO-				
LM2596T-ADJ	220 64 X 8 Serial Real-	U2	LM2596T-ADJ	1	
DS1307	Time Clock	U1	DS1307	1	
Terminal 3		T3	Terminal 3	1	
Terminal 3		T2	Terminal 3	1	
Terminal 3		T1	Terminal 3	1	
SIM900	SIM900	SIM1	SIM900	1	
SMBJ15A	SMBJ15A	S1	SMBJ15A	1	
HRS4H Relay	HRS4H Relay	Re3	HRS4H Relay	1	
HRS4H Relay	HRS4H Relay	Re2	HRS4H Relay	1	
HRS4H Relay	HRS4H Relay	Re1	HRS4H Relay	1	
BC547	NPN General- purpose Transistor	07	BC547	1	
BC547	NPN General- purpose Transistor	Q6	BC547	1	
BC547	NPN General- purpose Transistor	Q5	BC547	1	
BC547	NPN General- purpose Transistor	Q4	BC547	1	
	NPN General-				
BC547	purpose Transistor NPN General-	Q3	BC547	1	
BC547	purpose Transistor	Q2	BC547	1	
BC547	NPN General- purpose Transistor	Q1	BC547	1	
Header 4	Header, 4-Pin	P9	Header 4	1	
Header 12	Header, 12-Pin	P8	Header 12	1	
Header 12	Header, 12-Pin	P7	Header 12	1	
Header 12	Header, 12-Pin	P6	Header 12	1	
Header 12	Header, 12-Pin	P5	Header 12	1	
Header 12	Header, 12-Pin	P4	Header 12	1	
Header 12	Header, 12-Pin	P3	Header 12	1	
Header 12	Header, 12-Pin	P2	Header 12	1	
Header 12	Header, 12-Pin	P1	Header 12	1	
4N25A	4N25A	N3	4N25A	1	
4N25A	4N25A	N2	4N25A	1	
				1	
4N25A	4N25A	N1	4N25A	1	
270Ohm	Inductor	In2	Inductor		
Inductor	100uF	In1	Inductor	1	
LED-GREEN-3MM	LED-GREEN-3MM 1 Amp General	D7	LED-GREEN-3MM	1	
Diode 1N4007	Purpose Rectifier	D6	Diode 1N4007	1	
LED-GREEN-3MM	LED-GREEN-3MM	D5	LED-GREEN-3MM	1	
	1 Amp General				
D1 1 481/	Purpose Rectifier Rectifier, 2-Pin Axial_Lead, Bulk	D4	Diode 1N4007	1	
Diode 1N4007			MBR360	1	
Diode 1N4007 MBR360	Bag	D3			
MBR360	Bag LED-GREEN-3MM		LED-GREEN-3MM	1	
MBR360 LED-GREEN-3MM	Bag LED-GREEN-3MM 1 Amp General	D2			
MBR360 LED-GREEN-3MM Diode 1N4007	Bag LED-GREEN-3MM 1 Amp General Purpose Rectifier	D2 D1	Diode 1N4007	1	
MBR360 LED-GREEN-3MM	Bag LED-GREEN-3MM 1 Amp General	D2			

Comment	Description	Designator	LibRef	Quantity	Value
Cap2	Capacitor	C16	Cap2	1	2200uF
Cap2	Capacitor	C14	Cap2	1	1000uF
Res1	Resistor	R43	Res1	1	220
Res1	Resistor	R31	Res1	1	
Cap2	Capacitor	C13	Cap2	1	100uF
		C8	+	1	
Cap2	Capacitor		Cap2		
Res2	Resistor	R40	Res2	1	
Ceramic Capacitor	Ceramic Capacitor	C11	Ceramic Capacitor	1	22pF
Ceramic Capacitor	Ceramic Capacitor	C10	Ceramic Capacitor	1	22pF
Ceramic Capacitor	Ceramic Capacitor	C6	Ceramic Capacitor	1	10uF
Res1	Resistor	R42	Res1	1	10k
Res1	Resistor	R30	Res1	1	
Res1	Resistor	R37	Res1	1	
Res1	Resistor	R28	Res1	1	10K
Res1	Resistor	R27	Res1	1	10K
Res1	Resistor	R26	Res1	1	10K
Res1	Resistor	R25	Res1	1	
Res1	Resistor	R24	Res1	1	
Res1	Resistor	R23	Res1	1	
Res1	Resistor	R22	Res1	1	10K
Res1	Resistor	R39	Res1	1	4.7K
Res1	Resistor	R38	Res1	1	
Res1	Resistor	R35	Res1	1	
Res1	Resistor	R32	Res1	1	
Cap2	Capacitor	C17	Cap2	1	1uF
Cap2	Capacitor	C15	Cap2	1	1uF
Res1	Resistor	R41	Res1	1	1k
Res1	Resistor	R33	Res1	1	
				1	
Ceramic Capacitor	Ceramic Capacitor	C18	Ceramic Capacitor		
Ceramic Capacitor	Ceramic Capacitor	C12	Ceramic Capacitor		0.1uF
Ceramic Capacitor	Ceramic Capacitor	C9	Ceramic Capacitor		0.1uF
Ceramic Capacitor	Ceramic Capacitor	C7	Ceramic Capacitor	1	0.1uF
NE555P	Precision Timer	U5	NE555P	1	
LM2576HVT-5.0	SIMPLE SWITCHER® 3A Step-Down Voltage Regulator, 5-pin TO-220 8-bit AVR	U4	LM2576HVT-5.0	1	
ATmega328P-AU	Microcontroller, 32KB Flash, 1KB EEPROM, 2KB SRAM, 32-pin TOFP, Industrial Grade (-40°C to 85°C) SW-D6-R / SW-DS-	U3	ATmega328P-AU	1	
SW-PB-YELLOW	S / SW-14X14 / SW- 7X7	SW1	SW-PB-YELLOW	1	
Small	Small		Small		
Potentiometer	Potentiometer	R36	Potentiometer	1	
Small	Small	D24	Small	1	
Potentiometer	Potentiometer NPN General-	R34	Potentiometer	1	
BC547	purpose Transistor	Q13	BC547	1	
BC557	PNP General- purpose Transistor	Q12	BC557	1	
BC547	NPN General- purpose Transistor	Q11	BC547	1	
BC547	NPN General- purpose Transistor	Q10	BC547	1	
BC547	NPN General- purpose Transistor	Q9	BC547	1	
BC547	NPN General- purpose Transistor	Q8	BC547	1	
Power Terminal 2	Power Terminal 2	Pwr2	Power Terminal 2	1	İ
Power Terminal 2	Power Terminal 2	Pwr1	Power Terminal 2	1	
			<u> </u>		
Jumper	Header, 2-Pin	P13	Header 2	1	
Hondor 2V2	Header, 3-Pin,	D12	Header 3X2	1	
Header 3X2	Dual row	P12			
Header 4	Header, 4-Pin	P11	Header 4	1	
NRF24	NRF24	NRF1	NRF24	1	
	GENERIC RJ11 6				
RJ11	PIN CONNECTOR	J2	RJ11	1	
	GENERIC RJ11 6				
RJ11	PIN CONNECTOR	J1	RJ11	1	
Inductor	Inductor	In3	Inductor	1	
LED-GREEN-3MM	LED-GREEN-3MM	D11	LED-GREEN-3MM	1	
	1 Amp General		1		
Diode 1N4007	Purpose Rectifier Rectifier, 2-Pin	D10	Diode 1N4007	1	
1NE022	Axial_Lead, Bulk	Do	1NE022		
1N5822	Bag	D8	1N5822	1	-
Crystal	Crystal	Cr1	Crystal	1	
SW-DIP8	4 POLE DIP SWITCH	1	CM DIDO	1	
	SWIICH		SW-DIP8		-
	1	2	AMS1117-3.3	1	1
AMS1117-3.3				1	

Comment	Description	Designator	LibRef	Value
Res1	Resistor	R45	Res1	480
Res1	Resistor	R44	Res1	480
Res1	Resistor	R48	Res1	33K
Res1	Resistor	R46	Res1	10K
Res1	Resistor	R47	Res1	4.7K
Terminal 3		T4	Terminal 3	
HRS4H Relay	HRS4H Relay	Re4	HRS4H Relay	
BC547	NPN General- purpose Transistor	Q15	BC547	
BC547	NPN General- purpose Transistor	Q14	BC547	
Header 14	Header, 14-Pin	P14	Header 14	
Header 14	Header, 14-Pin	P10	Header 14	
4N25A	4N25A	N4	4N25A	
LED-GREEN-3MM	LED-GREEN-3MM	D13	LED-GREEN-3MM	
Diode 1N4007	1 Amp General Pur	D12	Diode 1N4007	