



Comment	Description	Designator	Footprint	LibRef	Quantity
Header 3H		1, 2, GND1	HDR1X3	Header 3H	3
PIN 3V	Battery 3VDC	BT1	PIN3V	PIN 3V	1
10uF		C1	CAP RADIAL 3.5x7.7	CAPACITOR	1
105		C2	CAP 10x DIP	CAP CERAMIC	1
104		C3	CAP 10x DIP	CAP CERAMIC	1
0.1F	Cap np W0.3	C4	CN3	CN3	1
	Polarized Capacitor (Surface Mount)	C5, C6, C7, C8, C9	CAP RADIAL 3.5x7.7	Cap Pol3	5
20pF	Cap np 1pF - 472pF	C10, C11	CN1	CN1	2
1uF	Cap P 0,1uF < 22uF , 16 - 50V	C12	CP1/2	CP1	1
1N4007	Diode 1A	D1	D1A	D1A	1
7SEGO	Four 7 Seg Dipslay	DS1	7SEGO	LED7Q	1
Header 5x2	Header 5x2	HD1	Hed2X5	HED5x2	1
LM7805	On ap +, from + 5 to + 24VDC	IC1	QTO-220H3	LM78xx	1
ATMEL 16L	8-Bit AVR Microcontroller with 16K Bytes of In-System Programmable Flash Memory	IC2	DIP40/W0.6	Atmega16L	1
MAX232	Dual EIA-232 Driver/Receiver	IC3	DIP16/W0.3	MAX232	1
COM 9 FEMALE		J1	COM9 FEMALE	COM 9 FEMALE	1
JACK DC		JACK1	JACK DC	JACK DC	1
LCD 16x2		LCD1	LCD 16x2-A	LCD 16x2	1
LED	LED Single colour Green and Red	LED1	LED-5-Green	LED	1
Header 8		P1, P2, P3, P4	HDR1X8	Header 8	4
NPN-TO92		Q1, Q2, Q3, Q4	TO-92	NPN-TO92	4
220	Resistor 1/4W	R1, R3	R1/4W	R1/4W	2
2.7K	Resistor 1/4W	R2, R4	R1/4W	R1/4W	2
100k		R5	RESISTOR	RESISTOR	1
10K	Resistor 1/4W	R6, R7, R8, R9	R1/4W	R1/4W	4
Res1	Resistor	R10, R11, R12, R13, R14, R15, R16, R17	R1/4W1	Res1_2	8
SW6S	SW-DTDP - 6 Pin	SW1	SW6	SW6S	1
SW	Switch button 4 pin	SW2, SW3, SW4, SW5, SW6	SW4	SW4	5
AMS1117-3.3V		U1	SOT223 - 3 LEAD	AMS1117	1
DS1307		U2	DIP8/W0.3	DS1307	1
10K		VR1	VR	VAR RES	1
16Mhz	Crystal For all Crystal 2pin.	X1	XT2	XT2	1
32.768KHz	Crystal Oscillator	Y?	XTAL32K	XTAL/32KHz	1