

Bill Of Materials for Zamok1 shematic

6 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
4	C1,C4-C6	1.0u	CAP CERM .1uF 10% 50V X7R 1206
2	C2-C3	47u	47u 25V High Temp Radial Capacitor

Sub-totals:

19 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
1	R1	11k	Through Hole Resistor, 250 mW, Axial Leaded, 250 V 11K $\pm$ 1
1	R2	1k1	Through Hole Resistor, 250 mW, Axial Leaded, 250 V 1K1 $\pm$ 1
2	R3,R19	68k	0.1W, 1%, SMD1206 68K
1	R4	9k8	Through Hole Resistor, 250 mW, Axial Leaded, 250 V 9K8 $\pm$ 1
2	R5,R16	1k	0.1W, 1%, SMD1206 1K
1	R6	2.2k	0.1W, 1%, SMD1206 2K2
1	R7	3k9	0.1W, 1%, SMD1206 3K9
1	R8	6k8	0.1W, 1%, SMD1206 6K8
1	R9	10K	SMD1206 resistor 10K $\pm$ 1
1	R10	15k	0.1W, 1%, SMD1206 15K
1	R11	22k	0.1W, 1%, SMD1206 22K
1	R12	33k	0.1W, 1%, SMD1206 33K
1	R13	47k	0.1W, 1%, SMD1206 47K
3	R14-R15, R18	10k	Through Hole Resistor, 250 mW, Axial Leaded, 250 V 10K $\pm$ 1
1	R17	47k	Through Hole Resistor, 250 mW, Axial Leaded, 250 V 47K $\pm$ 1%

Sub-totals:

3 Integrated Circuits

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
1	U1	ATMEGA8	8 KBytes Flash, 1088 Bytes SRAM, 512 Bytes EEPROM, ADC, Analog Comparator, TWI, SPI, 3 Ports, 3 Timers, 1 USART
1	U2	78L05	5V Fixed 100mA Positive Power Supply Regulator.
1	U3	IRM02-12	AC/DC PCB Mount Power Supply (PSU), 1 Output, 12 V, 167mA

Sub-totals:

3 Transistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
2	Q1,Q3	BC337	Silicon NPN Low Power High Frequency Bipolar Transistor (625mW, 150eC)
1	Q2	BC337	Silicon NPN Low Power High Frequency Bipolar Trans.

Sub-totals:

7 Diodes

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
1	D1	LED-YELLOW 5MM	Animated LED model (Yellow)
2	D2,D5	1N4148	Generic diode
3	D3,D6-D7	1N4007	Si - 75.0V, 0.300A, 4.00ns in DO35 package
1	D4	LED-RED 5MM	Animated LED model (Red)

Sub-totals:

19 Miscellaneous

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
1	B1	9V	AAAx6 Battery holder
1	LCD1	Alphanumeric LCD, 16 x 1, 5V	16x1 Alphanumeric LCD display
1	RL1	5V	Power relay, Non Latching, SPST-NO, 5 VDC, 5 A
12	S1-S12	B3F-1070	SPST Push Button
2	X1-X2	TBLOCK-M2	Metric pitch terminal block
2	X3-X4	TBLOCK-M3	Metric pitch terminal block

Sub-totals: