

# Bill Of Materials

**Design Title**                      zamok7segm  
**Author**

## 0 Modules

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Description</a>
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Sub-totals:

## 9 Capacitors

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Description</a>
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2	C1,C3	47u	47u 25V High Temp Radial Capacitor
7	C2,C4-C9	1.0u	CAP CERM .1uF 10% 50V X7R 1206

Sub-totals:

## 25 Resistors

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Description</a>
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5	R1-R4,R12	10k	Generic resistor symbol
8	R5-R11, R15	1k	Generic resistor symbol
2	R13-R14	5k	Generic resistor symbol
1	R16	10k	RESISTOR SMD1206 10K $\pm$ 1%
8	R17,R19- R25	470R	RESISTOR SMD1206 470R $\pm$ 1%
1	R18	47k	RESISTOR SMD1206 47K $\pm$ 1%

Sub-totals:

## 7 Integrated Circuits

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Description</a>
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1	U1	78L05	5V Fixed 100mA Positive Power Supply Regulator.
1	U2	7400	Quadruple 2-Input Positive-NAND Gates
1	U4	IRM02-12	AC/DC PCB Mount Power Supply (PSU), 1 Output, 12 V, 167mA
1	U5	74HC4051	Analog Multiplexers/Demultiplexers
1	U6	40192	4-Bit Up/Down Decade Counter
1	U7	4511	BCD To 7-Segment Latch/Decoder/Driver With Lamp Test Input DIL-16
1	U8	PIC12F675	PIC12 Microcontroller (1792B code, 128B data, Watchdog Timer, 1x8-bit & 1x16-bit Timer, 4x10-bit ADC)

Sub-totals:

## 1 Transistors

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Description</a>
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1	Q1	BC337	Silicon NPN Low Power High Frequency Bipolar Transistor (625mW, 150°C)
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Sub-totals:

## 5 Diodes

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Description</a>
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3	D1-D3	1N4007	Si - 75.0V, 0.300A, 4.00ns in DO35 package
2	D4-D5	LED-GREEN	LED 3mm

Sub-totals:

## 12 Miscellaneous

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Description</a>
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1	B1	9V	AAAx6 Battery holder
2	J1-J2	TBLOCK-M3	Metric pitch terminal block
2	J3-J4	MKDSN1,5/5-5	Imperial pitch terminal block

1	LED1	7 Segment LED Display, SC08-11SUR Common Cathode	Red, 7-Segment common Cathode
1	RL1	5V	Power relay, Non Latching, SPST-NO, 5 VDC, 5 A
1	SW1	SW-SPDT-MOM	Pushbutton Switch, Standard, DPDT, On-(On), Round
4	SW2-SW5	SW-SPDT-MOM	Pushbutton Switch, Standard, DPDT, On-(On), Round

Sub-totals: