

Bill Of Materials for zamokencoder

0 Modules

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
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Sub-totals:

10 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
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2	C1,C4	1.0u	CAP CERM .1uF 10% 50V X7R 1206
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2	C2-C3	47u	47u 25V High Temp Radial Capacitor
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5	C5-C6,C8-C10	100n	CAP 100N 50V CERM CHIP 1206
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1	C7	22u	CAP AO TYPE 22uF 6.3V 20% RADIAL
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Sub-totals:

16 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
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3	R1-R3	4k7	Through Hole Resistor, 250 mW, Axial Leaded, 250 V 4K7 $\pm$ 1%
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9	R4,R6-R12,R15	220	Through Hole Resistor, 250 mW, Axial Leaded, 250 V 220R $\pm$ 1%
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1	R5	330k	Through Hole Resistor, 250 mW, Axial Leaded, 250 V 330K $\pm$ 1%
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2	R13-R14	10k	Through Hole Resistor, 250 mW, Axial Leaded, 250 V 10K $\pm$ 1%
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1	R16	47k	Through Hole Resistor, 250 mW, Axial Leaded, 250 V 47K $\pm$ 1%
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Sub-totals:

6 Integrated Circuits

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
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1	U1	IRM02-12	AC/DC PCB Mount Power Supply (PSU), 1 Output, 12 V, 167mA
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1	U2	78L05	5V Fixed 100mA Positive Power Supply Regulator.
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1	U3	74HC393	Dual 4-Stage Binary Counters SO14
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1	U4	ATTINY2313	2 KBytes Flash, 192 Bytes SRAM, 128 Bytes EEPROM, Analog Comparator, USI, 3 Ports, 2 Timers, 1 USART DIL20
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1	U5	74HC74	Dual Positive-Edge-Triggered D-Type Flip-Flops SO14
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1	U6	CD4098	Dual Monostable Multivibrator SOIC16
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Sub-totals:

1 Transistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
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1	Q1	BC337	Silicon NPN Low Power High Frequency Bipolar Trans.
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Sub-totals:

5 Diodes

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
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3	D1-D2,D5	1N4007	Si - 75.0V, 0.300A, 4.00ns in DO35 package
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1	D3	LED-RED	LED 3mm RED
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1	D4	LED-YELLOW	LED 3mm YELLOW
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Sub-totals:

9 Miscellaneous

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
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1	B1	9V	AAAx6 Battery holder
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1	ENCODER	EC11E18244A5	<u>Incremental Rotary Encoder, Metal Shaft, With Pushbutton, 11mm, 36 Detents, 18 Pulses</u>
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2	J1-J2	TBLOCK-M3	Metric pitch terminal block
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2	J3-J4	TBLOCK-M4	Metric pitch terminal block
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1	LED1, LED2	VAOS-C402S9-BW/50	7SEGMENT LED, 10.16MM, RED COM CATHODE
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1	RL1	5V	Power relay, Non Latching, SPST-NO, 5 VDC, 5 A
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1	SW2		SPST Push Button
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