

Bill Of Materials for Counter_Attiny2313_SCH

7 Capacitors

Quantity	References	Value	Description
5	C1-C3,C5,C7	1.0u	CAP CERM .1uF 10% 50V X7R 1206
2	C4,C6	47u	47u 25V High Temp Radial Capacitor

Sub-totals:

16 Resistors

Quantity	References	Value	Description
11	R1,R3-R12	10K	RES 1/10W 5% SMD1206
5	R2,R13-R16	470	RES 1/10W 5% SMD1206

Sub-totals:

5 Integrated Circuits

Quantity	References	Value	Description
2	U1,U3	GP2Y0A700K0F	General Purpose Type Distance Measuring Sensors
1	U2	LM193	Dual, General Purpose, Differential Comparator
1	U4	7805	5V Fixed 1A Positive Power Supply Regulator.
1	U5	ATTINY2313	2 KBytes Flash, 192 Bytes SRAM, 128 Bytes EEPROM, Analog Comparator, USI, 3 Ports, 2 Timers, 1 USART

Sub-totals:

6 Transistors

Quantity	References	Value	Description
2	Q1,Q5	BC337-40	Silicon NPN Low Power High Frequency Bipolar Transistor (625mW, 150eC)
4	Q2-Q4,Q6	IRLR3410	Logic Level Gate Driv100V, 15A @ 25°C, 52W, Single N-Channel Power MOSFET in a D-Pak package

Sub-totals:

10 Diodes

Quantity	References	Value	Description
1	D1	1N4372A	3V 20mA Zener Diode
2	D2-D3	1N4148	Si - 75.0V, 0.300A, 4.00ns in DO35 package
4	D4-D7	LED-RED	LED 5MMI (Red)
3	D8,D10-D11	1N4004	Standard Recovery Diode, 400 V, 1 A, Single, 1 V, 30 A

Sub-totals:

21 Miscellaneous

Quantity	References	Value	Description
1	B1	9V	AAx6 Battery holder
1	BUZ1	BUZZER	DC Operated Buzzer - Outputs Via Sound Card
1	ENCLOSUR1	1555JF42GY	Plastic Enclosure, Watertight, Wall Mount, ABS, 62 mm, 91 mm, 159 mm, IP67
3	J1-J2,J6	TBLOCK-M3	Metric pitch terminal block
6	J3-J5,J7-J9	TBLOCK-M2	Metric pitch terminal block
1	LAMP1	SIGNAL LAMP-GREEN	Signal lamp IP66 GREEN
1	LAMP2	SIGNAL LAMP-RED	Signal lamp IP66 RED
1	LAMP3	LED-YELLOW	Signal lamp IP66 YELLOW
1	RL1	DS2Y-S-DC9V	Relay, 9 VDC, DPDT, 2 A, TX Series, Through Hole
1	RV1	10k	Rotary Potentiometer, Carbon, 10 kohm, 1 Turns, Linear, 50 mW, ± 20%, PTV09A Series