

Bill Of Materials f

4 Capacitors

Quantity	References	Value	Description
2	C1-C2	33u	33u 25V 65mA Miniture Electrolytic Capacitor
2	C3-C4	0.1uF	SMD Multilayer Ceramic Capacitor, 1206

Sub-totals:

3 Resistors

Quantity	References	Value	Description
1	R1	820	RES 0,25W 5% SMD1206
1	R2	680	RES 0,25W 5% SMD1206
1	R3	4.7k	RES 0,25W 5% SMD1206

Sub-totals:

5 Integrated Circuits

Quantity	References	Value	Description
1	U1	PIC12F629	PIC12 Microcontroller (1792B code, 64B data, Watchdog Timer, 1x8-bit & 1x16-bit Timer, 1xAnalogue Comparator)
1	U2	PC817	High Density Mounting Type Photocoupler.
1	U3	78L05	5V Fixed 100mA Positive Power Supply Regulator.
1	U4	DS1990	Serial Number iButton
1	U5	ACDC 12V 2A	AC-DC convertor 12V 2A

Sub-totals:

1 Transistors

Quantity	References	Value	Description
1	Q1	IRL2505	55V, 104A @ 25°C, 200W, Single N-Channel HEXFET Power MOSFET in a TO-220AB package

Sub-totals:

3 Diodes

Quantity	References	Value	Description
1	D1	LED-RED	LED3MM RED
1	D2	LED-YELLOW	LED3MM YELLOW
1	D3	1N4733A	5.1V 49mA Zener Diode

Sub-totals:

4 Miscellaneous

Quantity	References	Value	Description
1	LS1	SOUNDER	Piezo Buzzer 7,62mm
2	X1,X3	TBLOCK-I3	Terminal block I3 2,5mm
1	X2	TBLOCK-I2	Terminal block I2 2,5mm

Sub-totals:

Totals: