

## Bill Of Materials for Digifuse\_ACsch

### 7 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
7	C1-C7	0.47u	CAP CER .0,47uF 50V 10% SMD 0805

Sub-totals:

### 15 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
3	R1-R2,R6	120K	SMD 0805 250 mW, ± 1%
2	R3,R15	470	SMD 0805 250 mW, ± 1%
1	R4	220	SMD 0805 250 mW, ± 1%
5	R5,R7,R10-R11,R13	12K	SMD 0805 250 mW, ± 1%
1	R8	7K2	SMD 0805 250 mW, ± 1%
1	R9	100	SMD 0805 250 mW, ± 1%
1	R12	2K7	SMD 0805 250 mW, ± 1%
1	R14	4K7	SMD 0805 250 mW, ± 1%

Sub-totals:

### 8 Integrated Circuits

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
1	U1	5V 700mA AC DC module	<u>1.5uA IQ, 5V out, Step-Up AC-DC Converters</u>
1	U2	7SEGM VOLTMETER	
1	U3	IH0524S	DC/DC Converter, 1kV Isolation, ITE, 2 Output, 2 W, 24 V, 42 mA, -24 V
1	U4	ACS712ELCTR-20A-T	Fully Integrated, Hall Effect-Based Linear Current Sensor with High Voltage Isolation and a Low-Resistance Current Conductor.
1	U5	OPA445	Low Cost FET-Input Operational Amplifiers (1MHz, 3.5V/us, 4.5-36V)
1	U8	LM393	Dual, General Purpose, Differential Comparator
1	U13	74HC74	Dual Positive-Edge-Triggered D-Type Flip-Flops With Clear And Preset
1	U14	LM4040EIM3X2.5	Precision Micropower Shunt Voltage Reference 2.5V

Sub-totals:

### 1 Transistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
1	Q1	PBHV8115Z	Bipolar (BJT) Single Transistor, NPN, 150 V, 700 mW, 1 A, 250 hFE

Sub-totals:

### 2 Diodes

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
1	D1	LED-RED	LED 3MM (Red)
1	D2	LED 3MM GREEN	LED 3MM (Green)

Sub-totals:

### 6 Miscellaneous

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
1	FU1	20A	Fuse 5x20mm 16A
4	J1-J4	TBLOCK-M2	Standard Terminal Block, Wire to Board 2 Contacts, 5 mm, PCB Mount
1	RL1	4V	T90S5D12-5 RELAY, SPDT, 240VAC, 5V, 30A