

## Bill Of Materials for Digifuse\_dc\_vidro

### 9 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
7	C1-C2, C4-C7, C9	0.47uF	CAP CERAMIC 0.47uF 50V NP0 0805
1	C3	47u	47u 25V 70mA Miniture Electrolytic Capacitor
1	C8	10u	10u 25V 70mA Miniture Electrolytic Capacitor

Sub-totals:

### 10 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
2	R2-R3	470	SMD0805 250 mW, $\pm 1\%$
1	R4	220	SMD 0805 250 mW, $\pm 1\%$
4	R5, R7, R10-R11	12K	SMD 0805 250 mW, $\pm 1\%$
2	R6, R8	120K	SMD 0805 250 mW, $\pm 1\%$
1	R9	1K	SMD 0805 250 mW, $\pm 1\%$

Sub-totals:

### 7 Integrated Circuits

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
1	U1	IH0524S	DC/DC Converter, 1kV Isolation, ITE, 2 Output, 2 W, 24 V, 42 mA, -24 V
1	U2	7SEGM VOLTMETER	
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	U6	LM393	Dual, General Purpose, Differential Comparator
1	U7	74HC74	Dual Positive-Edge-Triggered D-Type Flip-Flops With Clear And Preset
1	U8	LM4040EIM3X-2.5	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	IRL2505	55V, 104A @ 25°C, 200W, Single N-Channel HEXFET Power MOSFET in a TO-220AB package

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-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 20A
4	J1-J4	TBLOCK-M2	Standard Terminal Block, Wire to Board 2 Contacts, 5 mm, PCB Mount
1	SW1	SW-SPDT-MOM	Interactive SPDT Switch (Momentary Action)

Sub-totals: