

eFuse pluggable resistors to quickly change trip current

I recently built the eFuse kit (based on the April 2017 project and supplied by Altronics) and made a little amendment to be able to quickly and easily swap out R1 and R2 (to suit each specific application).

I got the idea from building the 6-Digit LED GPS Clock (December 2015, January 2016) where IC socket strips were used as LED holders. Basically, I broke a socket strip up into single pins and soldered them in place of the resistor leads.

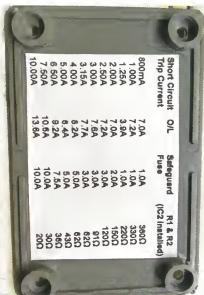
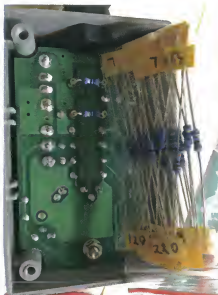
Now, when unscrewing the back of the box, I have quick access

to swap out the resistors; see the attached photo at bottom left.

I have also included two of each resistor in a small bag and re-created the selection table on a sticker printed from a Brother label printer which I stuck to the inside of the lid (see photo at bottom right).

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Editor's note: that's a clever idea but note that the resistors could work loose or become intermittent if they have a poor connection and the eFuse may not function properly. Fitting a rotary switch would be more work but probably less troublesome in the long run.



Trip Current	O/L	Safeguard Fuse	R1 & R2 (IC2 installed)
800mA	7.0A	1.0A	360Ω
1.00A	7.2A	1.0A	330Ω
1.25A	3.8A	1.0A	220Ω
2.00A	7.0A	2.0A	150Ω
2.50A	7.2A	3.0A	120Ω
3.00A	7.6A	3.0A	91Ω
3.15A	7.7A	3.0A	82Ω
4.00A	8.2A	5.0A	62Ω
5.00A	8.4A	5.0A	43Ω
6.50A	9.2A	7.5A	36Ω
7.50A	10.6A	10.0A	30Ω
10.00A	13.6A	10.0A	20Ω