

3PDT SWITCH-BOARD V3

Optimized PCB for 3PDT switches

OVERVIEW

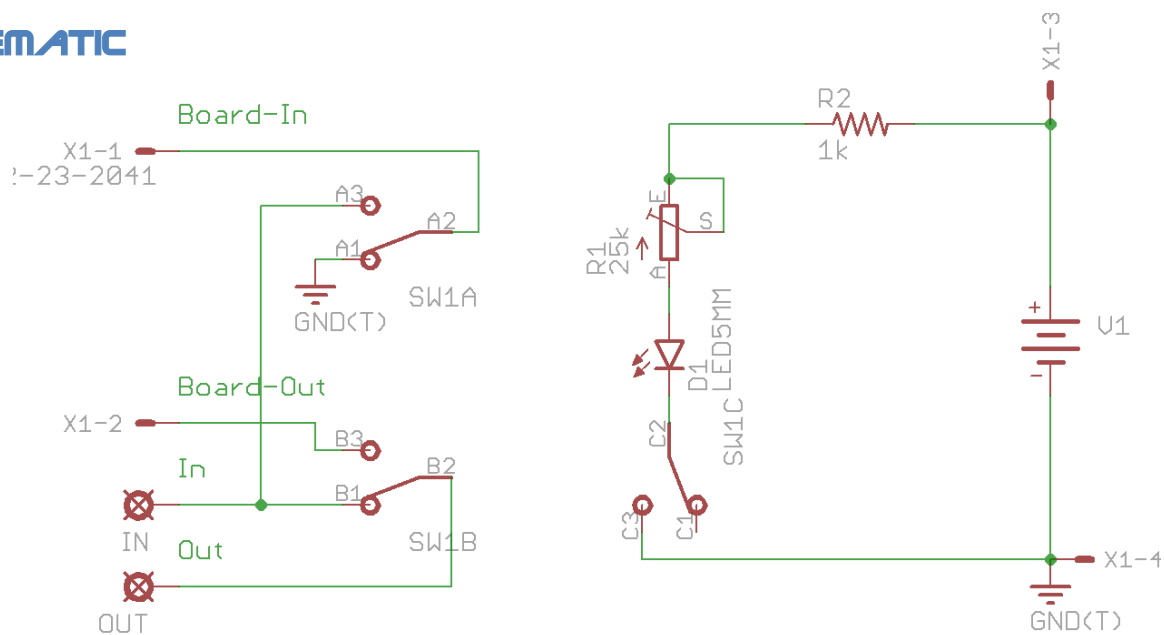
This is a 3PDT board which differs from others in the following way:

- short distance cable routing,
- easy power connection,
- optional connector
- dimmable LED with additional series protection resistor
- nice to look at ☺

GENERAL

Out of my daily business with building pedals for sale the 3rd generation is now available to the DIY-community. The circuit allows to use a small protection resistor in series with the trimpot to prevent the LED from burning out in the case the trimmer is set to 0R.

SCHEMATIC



BILL OF MATERIALS

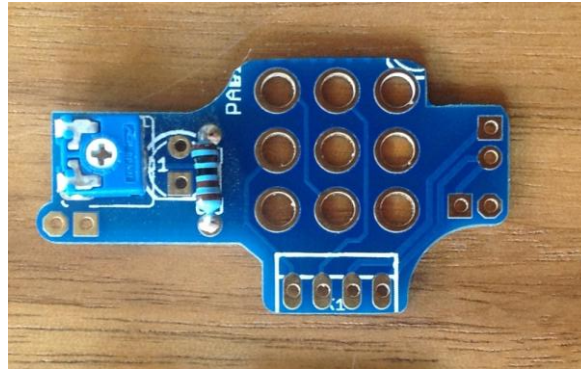
	Device#	Qty	Value	Comment
Resistors	R1	1	25k	trimpot, 6mm [ACP CA6V]*
	R2	1	1k	
Diodes	LED	1	diode of your choice	
Connector	C1	1	Molex 4-pin conn+housing	Mouser Links: Connector Housing

You can also use PIHER PT6 trimmers [Mouser-Link](#). Others are possible as well but you may not be able to adjust them through the PCB hole from the backside.

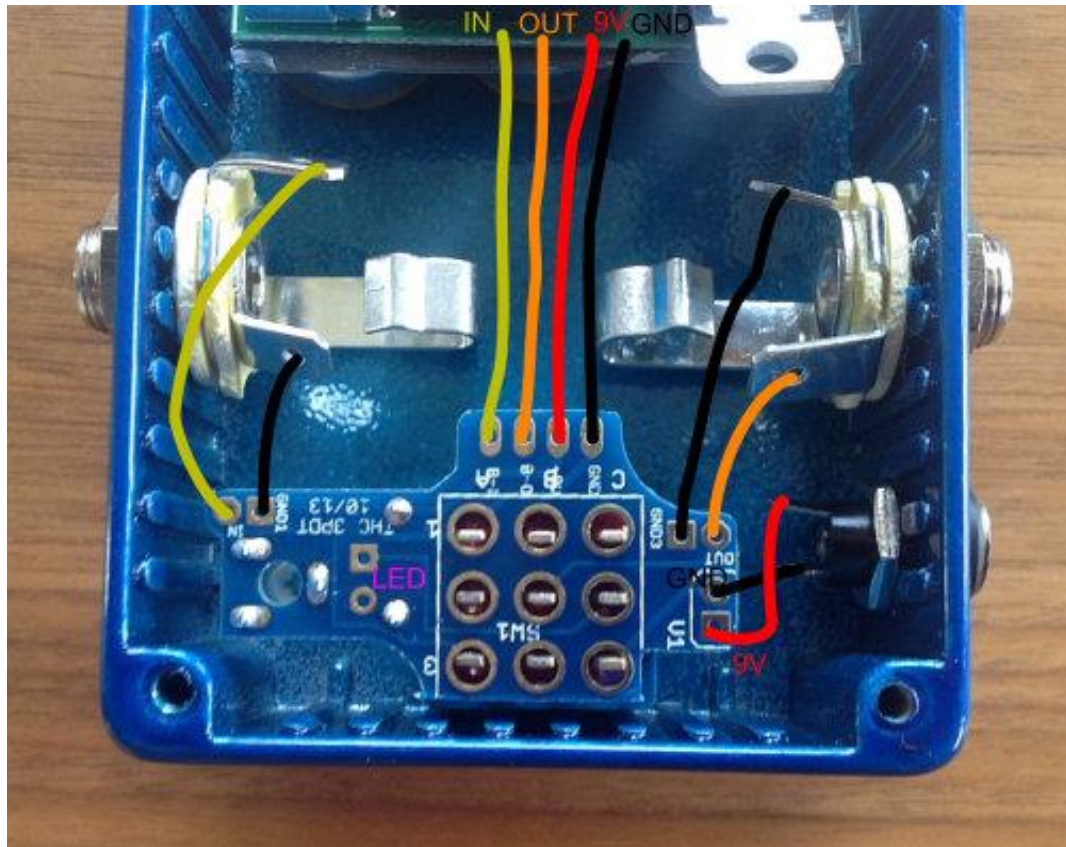
BUILDING

Populate the resistor and the trimpot on the backside of the PCB. So does the optional connector. Then fit the populated PCB onto the 3PDT switch.

Long pin of the LED goes through the round hole!



WIRING



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