

SHADY is Mutable Shades in THT by karltrn.com/shady v1.0 2022-05-01

Step	Qty	Reference(s)	Value	Footprint	Note
1	21	R2, R3, R4, R5, R6, R7, R8, R9, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23	100K	1/4W Resistor	logic
2	7	C1, C5, C6, C7, C10, C11, C12	100n	Cap Disc Ceramic	decoupling
3	2	C2, C3	10u	THT:CP_Radial_D5.0mm	power reservoir
4	3	C4, C8, C9	22p	Cap Disc Ceramic	opamp stabilization
5	3	R10, R24, R25	1K	1/4W Resistor	output dropper
6	3	R26, R27, R28	1K - 10K	1/4W Resistor	LED brightness, max about 1K, dim at 20K.
7	1	R1	3K3	1/4W Resistor	Vref current supply
8	2	D4, D5	1N5819	Diode_THT:D_DO-41_SOD81_P10.16mm_Horizontal	
9	1	Q1	LM4040B10	TO-92	http://www.ti.com/lit/ds/symlink/lm4040-n.pdf
10	1	J11	Euro Power Header	PinHeader_2x05_P2.54mm	prefer shrouded
11	3	U1, U2, U3	TL074	Package_DIP:DIP-14_W7.62mm	http://www.ti.com/lit/ds/symlink/tl071.pdf
12	2	J9, J10	Conn_01x10_Female	PinHeader_1x10_P2.54mm	rear board conn
13	2	J7, J8	Conn_01x10_Male	PinHeader_1x10_P2.54mm	front board conn
Affix faceplate and align steps 14-16 before soldering					
14	3	RV1, RV2, RV3	B10K	Potentiometer_THT:Potentiometer_Alpha_RD901F-40-00D_Single_Vertical	
15	3	SW1, SW2, SW3	SW_SPDT	Cust:SPDT_Tayda-A5111	slide switch
16	6	J1, J2, J3, J4, J5, J6	JACK_2P	europi:Thonkiconn	mono switching
17	3	D1, D2, D3	LED_THT:LED_D5.0mm	BIPOLAR 2-pin, any colors,	tricky to maneuver in, double check they haven't shorted to the jack pins
10	3	JP1, JP2, JP3	Pin_1x03_P2.54mm	right angle !	jumper for 10/5V, check they aren't touching switches' pins

power cable
screws
knobs