

Qty	Value	Reference(s)	Description
2	10uF	C1, C2	Electrolytic capacitor
6	100nF	C3, C4, C10, C11, C12, C13	Ceramic capacitor, decoupling
1	100nF	C5	C0G/NP0/film
1	1uF	C6	C0G/NP0/film
1	10nF	C7	C0G/NP0/film
1	100pF	C9	Ceramic capacitor
4	LED	D1, D4, D12, D13	LED 3mm, short leg (-) to square pad
7	1N4148	D2, D3, D5, D6, D7 , D10, D11	Diode DO-35
2	1N5817	D8, D9	Schottky DO-41
5	JACK	J1, J2, J3, J4, J5	Thonkiconn PJ398SM / PJ301M-12 mono jack
1	PCB_A	J6	PinHeader 1x20 2.54mm Vertical
1	PCB_B	J7	PinSocket 1x20 2.54mm Vertical
1	POWER	CON1	IDC Header 2x5 pin 2.54mm Vertical
1	A100k	POT2	Potentiometer Alpha 9mm Logarithmic
1	100k	POT3	Potentiometer Alpha 9mm
1	100k	POT4	Song Huei tall trimpot
1	BC547	Q1	NPN Transistor TO-92
1	100R	R1	Resistor 1/4W
2	47k	R2, R3	Resistor 1/4W
8	100k	R4, R6, R19, R23, R26, R31, R36, R21	Resistor 1/4W
1	4.7Meg	R5	Resistor 1/4W
1	180k	R7	Resistor 1/4W
1	470R	R8	Resistor 1/4W
2	2.2k	R16, R17	Resistor 1/4W
1	4.7k	R9	Resistor 1/4W, adjust for LED brightness
10	10k	R10, R11, R12, R13, R14, R15, R18, R24, R27, R30	Resistor 1/4W
2	1Meg	R20, R37	Resistor 1/4W
1	330k	R22	Resistor 1/4W
1	12k	R25	Resistor 1/4W
2	10R	R28, R29	Resistor 1/4W
2	5.6k	R32, R35	Resistor 1/4W, adjust for LED brightness
2	1k	R33, R34	Resistor 1/4W
1	SPDT on-off-on	SW1	100SP3T2B3M2 or similar (on-off-on)
3	SPDT	SW2, SW3, SW4	100SP1T2B3M2 or similar (on-on)
1	1k	TRIM1	Trimpot Bourns 3296W Vertical
2	TL074	U1, U2	Op-amp DIP 14
2	Spacers		11 mm, same as J6+J7 height

MODIFICATIONS

- Add a 330pF across R6. Fixes overshoots in SLEW and ENV mode at extreme SHAPE settings.
- Add a 56k resistor in series with C9. Fixes gate pulse "eating up" attack phase in TRIG mode when being just a bit shorter than the attack time.