

Lil’ Mono Synth (Sebastian Jazura / 2022)

Qty	Value	Parts	Package	Description	Notes
2	10U	C6, C11	000_4MM_CAP_STANDARD	POLARIZED CAPACITOR	Envelope Generator Timing Cap
1	3U3	C13	000_4MM_CAP_STANDARD	POLARIZED CAPACITOR	
3	100N	C10, C14, C15	000_5MM_DISC_STANDARD	CAPACITOR	
1	33P	C12	000_5MM_DISC_STANDARD	CAPACITOR	
1	10N	C4	000_7,5MM_FOIL_STANDARD	CAPACITOR	
3	220N	C1, C5, C9	000_7,5MM_FOIL_STANDARD	CAPACITOR	
2	33N	C7, C8	000_7,5MM_FOIL_STANDARD	CAPACITOR	
1	4N7	C2	000_7,5MM_FOIL_STANDARD	CAPACITOR	
10	100K	R1, R4, R11, R16, R21, R24, R25, R27, R33, R34	000_7,5MM_STANDARD	RESISTOR	
6	10K	R2, R18, R19, R23, R26, R41	000_7,5MM_STANDARD	RESISTOR	
1	1K	R22	000_7,5MM_STANDARD	RESISTOR	2M2 gives you around a semitone of fine tuning
1	1K5	R7	000_7,5MM_STANDARD	RESISTOR	
2	1M	R15, R42	000_7,5MM_STANDARD	RESISTOR	
1	22K	R40	000_7,5MM_STANDARD	RESISTOR	
1	2M2	R3	000_7,5MM_STANDARD	RESISTOR	
2	330K	R36, R37	000_7,5MM_STANDARD	RESISTOR	
1	33K	R39	000_7,5MM_STANDARD	RESISTOR	
1	470K	R12	000_7,5MM_STANDARD	RESISTOR	
5	47K	R9, R10, R13, R14, R30	000_7,5MM_STANDARD	RESISTOR	
2	4K7	R31, R35	000_7,5MM_STANDARD	RESISTOR	Not needed
1	56K	R38	000_7,5MM_STANDARD	RESISTOR	
1	5K6	R17	000_7,5MM_STANDARD	RESISTOR	
1	75K	R29	000_7,5MM_STANDARD	RESISTOR	
1	820K	R8	000_7,5MM_STANDARD	RESISTOR	
1	820R	R32	000_7,5MM_STANDARD	RESISTOR	
1	R NTC	RNTC	000_7,5MM_STANDARD	RESISTOR	
1	78L09	IC4	000_78LXX_STANDARD	VOLTAGE REGULATOR	
1	100U	C3	000_7MM_CAP_STANDARD	POLARIZED CAPACITOR	Sub miniature!
3	1N4148	D1, D7, D8	000_MOD_7MM_BAT_4148	DIODE	
1	+	JP1	1X02	PIN HEADER	
1	500K (log	VR6	9MM_SNAP-IN_POT	9mm vertical snap-in pot	
1	100K	VR1	9MM_SNAP-IN_POT	9mm vertical snap-in pot	
1	100K	VR8	9MM_SNAP-IN_POT	9mm vertical snap-in pot	
1	100K	VR10	9MM_SNAP-IN_POT	9mm vertical snap-in pot	
1	100K	VR2	9MM_SNAP-IN_POT	9mm vertical snap-in pot	
1	5K/10K	VR5	9MM_SNAP-IN_POT	9mm vertical snap-in pot	
1	500K (log	VR7	9MM_SNAP-IN_POT	9mm vertical snap-in pot	Can be replaced with the cheaper LM358
1	100K	VR9	9MM_SNAP-IN_POT	9mm vertical snap-in pot	
1	100K (log	VR3	9MM_SNAP-IN_POT	9mm vertical snap-in pot	
1	NE5532	IC7	DIL08	Generic Dual Op Amp	
4	TLC272	IC2, IC3, IC5, IC6	DIL08	Single Supply Dual Op Amp	
1	HEF4046N	IC1	DIL16	NXP/PHILIPS	
1	Z12V	D5	D034Z7	Z DIODE	
2	BAT85	D2, D4	D041-7.6	1.0A SCHOTTKY BARRIER RECTIFIER	
1	2.0-Vf	LED1	LED5MM	LED	LED with around 2.0V Forward Voltage
1	DRONE	S2	M9040P	TOGGLE SWITCH	
1	NTC	R5	640-10K	VISHAY NTC	
1	1K	VR4	RTRIMT93YA	Trimm resistor	
1	BS250	Q1	SOT54E (T092)	P-CHANNEL MOS FET	
3	BC547B	T1, T4, T5	T092-CBE	NPN Transistor	
1	BC557B	T2	T092-EBC	PNP Transistor	
1	GATE	U\$5	WQP-PJ301M-12_JACK	THONKICONN	
1	OUT	U\$2	WQP-PJ301M-12_JACK	THONKICONN	
1	V/OCT	U\$1	WQP-PJ301M-12_JACK	THONKICONN	Other T092 p-channel mosfets will work too
1	VCFCV	U\$6	WQP-PJ301M-12_JACK	THONKICONN	
1				1590BB enclosure	
3	20-25MM			M3 screw / nut / washer / 10mm standoff	
8				Knobs	

*1 Use a bit lower value for R24 if you get a ,dead spot’ on the lowest cut off setting

*2 Needs to be NXP/PHILIPS! Those are obsolete if you can’t find them you can use NXP SOIP version with an adapter. Usually you find the obsolete ones at ebay