

CubuSynth – 4VCLFO (TH) BOM – PCB V1.2 Oct 2022

ONLY FOR THE THROUGH-HOLE PCB VERSION !!!



Quantity	Name	Description	Footprint
Resistors			
2	10R	R1,R2	R_AXIAL-0.3
8	1k	R12,R13,R14,R15,R16,R17,R27,R37	R_AXIAL-0.3
4	4k7	R47,R52,R57,R62	R_AXIAL-0.3
8	10k	R4,R11,R18,R28,R38,R50,R55,R60	R_AXIAL-0.3
12	47k	R6,R9,R10,R19,R20,R23,R29,R30,R33,R39,R40,R43	R_AXIAL-0.3
4	68k	R7,R22,R32,R42	R_AXIAL-0.3
20	100k	R3,R5,R8,R21,R24,R31,R34,R41,R44,R45,R46,R48, R49,R51,R53,R54,R56,R58,R59,R61	R_AXIAL-0.3

Capacitors			
8	100n	C1,C2,C5,C6,C7,C8,C9,C10	RAD-0.2-MULTILAYER
4	0.1-10u*	C14,C15,C17,C19	CAP-D5.0x*F2.0
2	10u	C3,C4	CAP-D6.3x*F2.5

Transistors / Diodes			
4	2N3904	Q1,Q2,Q3,Q4	TO-92-3 L4.6-W3.6-P1.30-L_2N3904
4	LED-TH-3mm_G	LED2,LED4,LED6,LED8	LED-TH_BD3.0_GREEN
4	LED-TH-3mm_B	LED1,LED3,LED5,LED7	LED-TH_BD3.0_BLUE

Controls			
4	B100K	RV1,RV2,RV3,RV4	ALPHA / SONG HUEI 9MM POT
4	B100K	RV5,RV6,RV7,RV8	9MM TALL TRIMMER POT
9	PJ-301M	J1,J2,J3,J4,J5,J6,J7,J8,J9	PJ-301M

ICs			
4	TL074	U1,U2,U3,U4	DIP-14
4	IC Socket 14 pin	U1,U2,U3,U4	DIP-14

Pin Headers / Screws /cable			
2	HDR-M-2.54_1x8	J10,J11	HDR-M-2.54_1X8
2	HDR-F-2.54_1x8	H1,H2	HDR-F-2.54_1X8
1	Euro rack Power 10 Pin IDC	HDR-M-2.54_2X5 Boxed	EURORACK10
2	M3 Spacer 11mm	M3 spacer 11mm height	
4	M3 Screw Philips Head	M3 screw, length 4-6mm	
1	16-10pin Power cable		

PCBs			
1	Main PCB	EURO_10HP_PCB	PCB-EURO_10HP / 85MM
1	Control PCB	EURO_10HP_PCB	PCB-EURO_10HP
1	Front Panel	EURO_10HP_FRONTANEL	EURO_10HP_FRONTANEL

*LFO speed for Capacitor Values:

cap. Value	Time (seconds)	Frequency (hz)
10uf:	140~5 sec	0.007~0.2 hz
4.7uf:	70~2.5 sec	0.014~0.4 hz
1uf:	14~0.5 sec	0.07~2 hz
0.1uf:	0.5~0.014 sec	2~70 hz

LFO 1 – capacitor C14

LFO 2 – capacitor C15

LFO 3 – capacitor C17

LFO 4 – capacitor C19