

DIY_Polivoks_VCO_controls_v2_1

Erica Synths DIY VCO

Controls Board
V2_1, March 2017

Id	Designator	Package	Quantity	Value	Supplier and ref
1	C22,C5,C6,C25,C31,C34	C-5mm	6	0.1uF	ceramic capacitor
2	C1	C-5mm	1	47p	ceramic capacitor
3	C30,C32	C-5mm	2	10nF	ceramic capacitor
4	C3,C4	CE63x25	2	47uFx25V	electrolytic capacitor
5	C33,C36	CE63x25	2	10uFx25V	electrolytic capacitor
6	R1,R2,R3,R4,R5	R_W4_THT	5	10k 0,1%	use 0,1% resistor here
7	R11,R16,R49,R71,R90	R_W4_THT	5	10k	resistors are 1% 250mW
8	R6,R9,R10,R48,R96,R97,R98	R_W4_THT	7	100k	
9	R86,R90	R_W4_THT	2	22k	
10	R87	R_W4_THT	1	10M	
11	R88,R91	R_W4_THT	2	1k	
12	R13,R15	R_W4_THT	2	18k	
13	R14,R62	RD901F	2	10k	
14	R58	R_W4_THT	1	15k	
15	R66	R_W4_THT	1	30k	
16	R78,R79,R80	R_W4_THT	3	470ohm	
17	SW1	SR1712F_ROT_SW	1	SR1712F_ROT_SW	comes with a kit
	VD3,VD4,VD5,VD6,VD9,VD10,VD16,VD17,V				
18	D18,VD19,VD20,VD21	DO-35	12	1N4148	
19	DA6	TO-92	1	LM337L	
20	DA7	TO-92	1	LM317L	
				2x5 eurorack power	
21	XP1	IDC-10MS	1	connector	
22	XS1,XS2,XS3,XS4,XS5,XS6,XS7	WQP-PJ301M-12	7	3,5mm mono jacks	Thonkiconn jacks
23	XS8,XS9,XS10,XS11	PBS-8	4	1x8 female connector	comes with a kit
24	R33	R_TRIM_T93YAx	1	1k	multiturn trimpot
25	R7	R_TRIM_T93YAx	1	10k	multiturn trimpot
26	R8	RD901F	1	B100k (lin)	Alpha potentiometer
27	R14,R62	RD901F	2	B10k (lin)	Alpha potentiometer
28	VD1,VD2	DO-41	2	1N4001	
29	L1,L2		2	ferrite bead	
30	VR1,VR2	RB090-30	2	Resettable fuse	

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1	C7,C8,C9,C10,C11,C12,C13,C14	C-5mm	8	0.1uF	ceramic capacitor
2	C35	C-5mm	1	10nF	ceramic capacitor
3	C15	C-5mm	1	2.7nF	ceramic capacitor
4	C16	C-5mm	1	47nF	ceramic capacitor
5	C17	C-5mm	1	100pF	ceramic capacitor
6	C18	C-5mm	1	2n2	ceramic capacitor
7	C19	C-5mm	1	330pF	ceramic capacitor
8	C21	C-5mm	1	47pF	ceramic capacitor
9	C23	C-5mm	1	5600pF	film capacitor
10	C29	CE63x25	1	47uFx25V	electrolytic capacitor
11	C20	CE63x25	1	22uFx25V	electrolytic capacitor
					non polarized
12	C2,C26,C27,C28	CE63x25	4	10uFx25V	electrolytic capacitor
13	DA1,DA2,DA3	DIP-14	3	TL074	
14	DA4	DIP-8	1	TL072	
15	R12,R25,R57	R_W4_THT	3	56k	all resistors are 1%
16	R18, R32, R34,R40,R54,R55,R83	R_W4_THT	7	10k	
17	R19,R68	R_W4_THT	2	20k	
	R20,R22,R41,R46,R60,R61,R63,R65,R70,R7				
18	6,R82,R85	R_W4_THT	12	100k	
19	R23	R_W4_THT	1	270ohm	

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20 R26	R_W4_THT	1 360k	
21 R27,R28,R29,R30	R_W4_THT	4 100k	
22 R35,R39,R44	R_W4_THT	3 100ohm	
23 R36	R_W4_THT	1 1k	
24 R37	R_W4_THT	1 910ohm	
25 R38	R_W4_THT	1 8.2k	
26 R42	R_W4_THT	1 6.19k	
27 R43	R_W4_THT	1 470ohm	
28 R95	R_W4_THT	1 200k	
29 R31,R64,R67, R94	R_W4_THT	4 33k	
30 R92	R_W4_THT	1 120k	
31 R93	R_W4_THT	1 470k	
32 R47,R51	R_W4_THT	2 6.8k	
33 R53	R_W4_THT	1 75k	
34 R56,R73	R_W4_THT	2 22k	
35 R59	R_W4_THT	1 47k	
36 R69	R_W4_THT	1 5.6k	
37 R72,R81,R84	R_W4_THT	3 4.7k	
38 R74,R75	R_W4_THT	2 6.19k	
39 R77	R_W4_THT	1 18k	
40 VD7,VD8,VD13,VD14,VD15,VD11	DO-35	6 1N4148	
41 VT1,VT3,VT4,VT6	TO-92-M	4 2N3904	
42 VT2,VT5	TO-92-M	2 2N3906	
43 DA5	DIP-14_Socket	1 KR198NT1A	comes with a kit
44 XP2,XP3,XP4,XP5	PLS-8	4 PLS-8	comes with a kit
45 R21	RKT6V	1 100k	single turn trimpot
46 R45,R50	RKT6V	2 1k	single turn trimpot

[Mouser shopping cart \(excludes jacks and potentiometers\)](#)