

DIY_Polivoks_Modulator_v1_1

Erica Synths DIY Modulator

V1.1 January 2017

Id	Designator	Package	Quantity	Value	Supplier and ref
1	C1	CE63x25	1	33uFx25V	electrolytic capacitor
2	C2,C3	CE63x25	2	47uFx25V	electrolytic capacitor
3	C4,C5,C8,C9,C12,C13,C17	C-5mm	7	0.1uF	ceramic capacitor
4	C15	C-5mm	1	330pF	ceramic capacitor
5	C20	C-5mm	1	47pF	ceramic capacitor
6	C22	C-5mm	1	22nF	film capacitor
7	R2	R_W4_THT	1	5.6k	5%, 250mW
8	R3,R5,R8	R_W4_THT	3	15k	5%, 250mW
9	R4,R10,R14,R21,R29	R_W4_THT	5	100k	5%, 250mW
10	R6,R13	R_W4_THT	2	2.2k	5%, 250mW
11	R7,R31,R37	R_W4_THT	3	22k	5%, 250mW
12	R9	R_W4_THT	1	220k	5%, 250mW
13	R11,R15,R33	R_W4_THT	3	10k	5%, 250mW
14	R17,R18,R40,R41	R_W4_THT	4	470ohm	5%, 250mW
15	R25	R_W4_THT	1	1k	5%, 250mW
16	R36,R38,R24	R_W4_THT	3	33k	5%, 250mW
17	R39	R_W4_THT	1	68k	5%, 250mW
18	R28	R_W4_THT	1	22k	5%, 250mW
19	R1	RD901F	1	B100k - B250k	Alpha potentiometer
20	DA1	DIP-14	1	TL074	
21	DA3	TO-52	1	ALPHA 1100CK2	comes with a kit
22	VT1,VT3	TO-92-M	2	2N3904	
23	VD3,VD4	DO-41	2	1N4001	
24	VD18,VD7,VD6,VD2,VD5,VD8,VD9,VD10,VD11,VD12,VD13,VD14,VD15,VD16,VD17	DO-35	15	1N4148	
25	VD1	LED-3MM	1	RED	
26	L1,L2	R0125W	2	ferrite bead	
27	VR1,VR2	RB090-30	2	resettable fuse	
28	XS7,XS8	PBS-4	2	1x4 female connector	comes with a kit
29	XP1	IDC-10MS	1	2x5 pin PSU connector	
30	XS1,XS2,XS3,XS4,XS5,XS6	WQP-PJ301M-12	6	3,5mm mono jack	Thonkiconn jacks

[Mouser shopping cart \(excludes jacks and potentiometers, noise generators included\)](#)**Erica Synths DIY noise generator BOM**

Zener diode version (Acid Noise)

V1.0 January 2017

Id	Designator	Package	Quantity	Designation	Supplier and ref
1	C6,C7,C10,C11	C-5mm	4	0.1uF	ceramic capacitor
2	C26	C-5mm	1	22nF	film capacitor
3	C14,C19	CE63x25	2	47uFx16V	electrolytic capacitor
4	C16,C21	CE63x25	2	10uFx16V	electrolytic capacitor
5	C23,C24,C25	CE63x25_NP	3	10uFx25V	non polarized electrolytic capacitor
6	R16,R19,R30,R32	R_W4_THT	4	100k	5%, 250mW
7	R12,R20,R49	R_W4_THT	3	10k	5%, 250mW
8	R22,R23,R47	R_W4_THT	3	56k	5%, 250mW
9	R26,R27,R46,R48	R_W4_THT	4	1k	5%, 250mW
10	R42,R43	R_W4_THT	2	2.2k	5%, 250mW
11	R44,R45	R_W4_THT	2	220k	5%, 250mW
12	R35	RKT6V	1	10k	single turn trimpot
13	VD19	DO-35	1	6.2V	6.2V Zener diode
14	VD20,VD21,VD22,VD23	DO-35	4	1N4148	
15	DA2	DIP-14	1	TL074	
16	L3,L4	R0125W	2	ferrite bead	may replace with jumpers
17	XP2,XP3	PLS-4	2	1x4 male connectors	come with kit

Erica Synths DIY noise generator BOM

Transistor version

V1.1 January 2017

Id	Designator	Package	Quantity	Designation	Supplier and ref
1	C6,C7,C10,C11,C16,C19	C-5mm	6	0.1uF	ceramic capacitors
2	C18	C-5mm	1	10pF	ceramic capacitors
3	C21	C-5mm	1	22nF	film capacitor
4	C14	CE63x25	1	1uFx25V	electrolytic capacitor

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5 DA2	DIP-8	1 TL072	
6 VT2	TO-92-M	1 2N3904	
7 L3,L4	R0125W	2 ferrite bead	may replace with jumper
8 R12,R16,R23	R_W4_THT	3 470k	5%, 250mW
9 R19,R22,R27	R_W4_THT	3 10k	5%, 250mW
10 R20	R_W4_THT	1 2M	5%, 250mW
11 R30	R_W4_THT	1 56k	5%, 250mW
12 R32	R_W4_THT	1 220k	5%, 250mW
13 R35	RKT6V	1 470k	single turn trimpot
14 XP2,XP3	PLS-4	2 1x4 male connectors	come with a kit