

DIY_MIDI_CV_controls

Erica Synths DIY MIDI-CV module

Controls Board

V1.1 February 2017

Id	Designator	Package	Quantity	Value	Supplier and ref
6	R1	R_W4_THT	1	220ohm	5%, 250mW
7	R7,R8,R9,R10,R11,R12	R_W4_THT	6	1k	5%, 250mW
8	R15	RD902F	1	B100k	comes with a kit
2	C4,C5	CE63x25	2	47uFx25V	electrolytic capacitor
3	C6,C7	C-5mm	2	0.1uF	ceramic capacitor
4	C12	C-5mm	1	10nF	ceramic capacitor
1	VD4, VD14	LED-3MM	2	RED	
12	VD12,VD13	LED-3MM	2	YELLOW	
10	VD2	DO-35	1	1N4148	
11	VD9,VD10,VD11	DO-35	3	BAT85	
15	VD1,VD3	DO-41	2	1N4001	
9	SW1	6x6_SPST	1	pushbutton	Pushbutton, Mouser
14	SW2	2MSxT1B5M2RE	1	SPDT switch	SPDT switch, Farnell
5	L2,L3	R0125W	2	berrite bead	
13	XP1	PLD-10	1	2x5 pin PSU connector	
16	XS9,XS10,XS11,XS12	PBS-6	4	1x6 pin female connectors	come with a kit
17	XS3,XS4,XS5,XS6,XS7,XS8	WQP-PJ301M-12	6	3,5mm mono jacks	Thonkiconn jacks

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Main Board

V1.1 February 2017

Id	Designator	Package	Quantity	Designation	Supplier and ref
1	C1,C2,C3,C8,C9,C13,C16,C17,C23	C-5mm	9	0.1uF	ceramic capacitor
2	C10,C11,C20,C21,C22	C-5mm	5	22pF	ceramic capacitor
5	C18,C19	C-5mm	2	2.2uF	ceramic capacitor
3	C14	CE63x25	1	47uFx25V	electrolytic capacitor
4	C15	CE63x25	1	10uFx25V	electrolytic capacitor
19	R13,R14,R16,R23,R24,R25,R5	R_W4_THT	7	1k	5%, 250mW
20	R3,R2,R4	R_W4_THT	3	4.7k	5%, 250mW
21	R17,R18,R20,R21,R22	R_W4_THT	5	10k	5%, 250mW
22	R19	R_W4_THT	1	47k	5%, 250mW
23	R6	R_W4_THT	1	100k	5%, 250mW
9	VD6,VD7,VD8	DO-35	3	BAT85	5%, 250mW
12	VD5	DO-41	1	1N4001	5%, 250mW
6	DA1	DIP-14	1	TL074	5%, 250mW
7	DA2	TO-92	1	78L05	5V LDO
13	DD1	DIP-28	1	ATMEGA328-P	comes with a kit
14	DA3	DIP-8	1	6N137	
15	DA4	DIP-8	1	MCP4822	
16	DA5	DIP-8	1	MCP4821	
11	ZQ1	HC-49S	1	16MHz	crystal, 10,77mm spacing
8	L1,L4	R0125W	2	ferrite bead	
10	XS1	PBS-5	1	1x5 pin male connector	do not populate
11	ZQ1	HC-49S	1	16MHz	
17	XS2	PLS-2	1	1x2 pin male connector	replace with wire jumper
18	XP2,XP3,XP4,XP5	PLS-6	4	1x6 pin male connectors	come with a kit

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