Erica Synths MIDI-CV II Bill of Materials

Please note: This BOM may differ slightly from the Erica Synths BOM or schematic on Github. We have made a few small improvements on some circuits. Where there is a discrepancy, please use this BOM.

Assembly guide can be found here: github.com/erica-synths/diy-eurorack

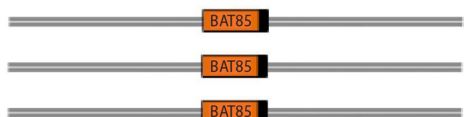## CONTROL BOARD

DIODES

1N4148: VD2

BAT85: VD9-VD11

1N4001 : VD1, VD3

Total: 6

RESISTORS (1/4 Watt, 1%)

220Ω: R1

1k: R7*, R8*, R9-R12

Total: 7   *Stand-Up Resistor

INDUCTORS

Ferrite Bead: L2, L3

Total: 2

CAPACITORS

47µF Electrolytic: C4, C5

10nF Ceramic: C12

0.1µF Ceramic: C6, C7

Total: 5

CONNECTORS

2x5 Header: XP1

1x6 Pin Socket: XS9-XS12

Total: 5

POTENTIOMETERS

B100k Vertical Dual Gang: R15

Total: 1

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CONTROL BOARD

JACKS

3.5mm Mono Jacks: XS3-XS8

Total: 6

DIODES

3mm Red LED: VD4, VD14

3mm Yellow LED: VD12, VD13

NOTE: LONG LEG OF LED GOES IN SQUARE HOLE.

Total: 4

SWITCHES

9.4mm Tact Switch: SW1

SPDT Sub-Mini ON-ON: SW2

Total: 2

LOGIC BOARD

DIODES

BAT85: VD6-VD8

1N4001 or 1N4002: VD5

Total: 4

INDUCTORS

Ferrite Bead: L1, L4

Total: 2

CRYSTALS

16MHZ: ZQ1

Total: 1

INTEGRATED CIRCUITS & SOCKETS

8 Pin Dip Socket:

6N137: DA3   MCP4822: DA4   MCP4821: DA5

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LOGIC BOARD

INTEGRATED CIRCUITS & SOCKETS
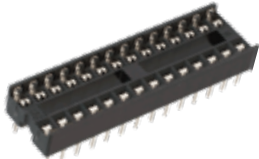
14 Pin Dip Socket: DA1   TL074

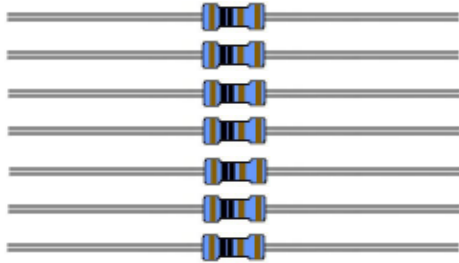28 Pin Dip Socket: DD1   ATMEGA328

Total: 10

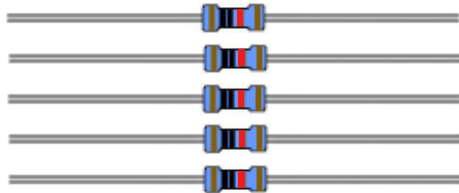### RESISTORS (1/4 Watt, 1%)- All Stand-Up

1k: R5, R13, R14, R16, R23-25

4.7k: R2-R4

10k: R17, R18, R20-R22
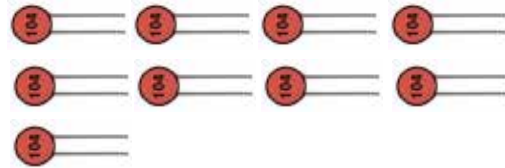
47k: R19

100k: R6

Total: 17

CAPACITORS

22pF Ceramic: C10, C11, C20-C22

0.1µF Ceramic: C1-C3, C8, C9, C13, C16, C17, C23
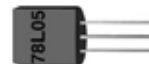
2.2µF Ceramic: C18, C19

10µF 25V Electrolytic: C15

47µF 35V Electrolytic: C14

Total: 18

VOLTAGE REGULATORS

78L05: DA2

Total: 1

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LOGIC BOARD

CONNECTORS

1x6 Header: XP2-XP5

2 Pin Header and Jumper:

Total: 6

HARDWARE

2.5mm Screws:

3mm Screws:

11mm Standoff:

3mm Slide Nuts:

Total: 11

OTHER

KNOBS

19mm Small Black Knob:

Total: 1

POWER CABLES

10 to16 Pin Power Cable:

Total: 1

JACKS

MIDI Jack:

Total: 1

PCB & PANEL

Total: 3

WIRE

6in 26AWG Wire:

Total: 1