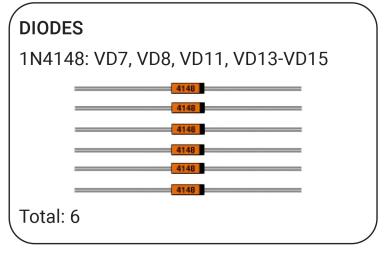
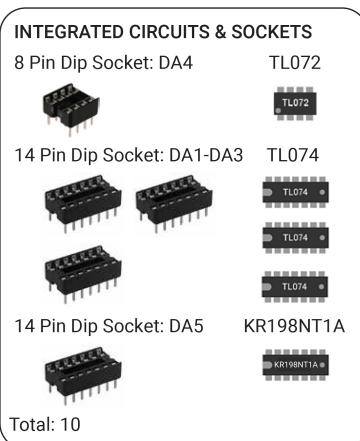
Please note: This BOM may differ slightly from the Erica Synths BOM or schematic on Github. We have made a few small improvements on some circuits. Where there is a discrepancy, please use this BOM.

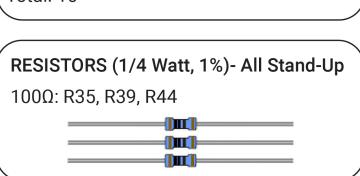
Assembly guide can be found here: github.com/erica-synths/diy-eurorack

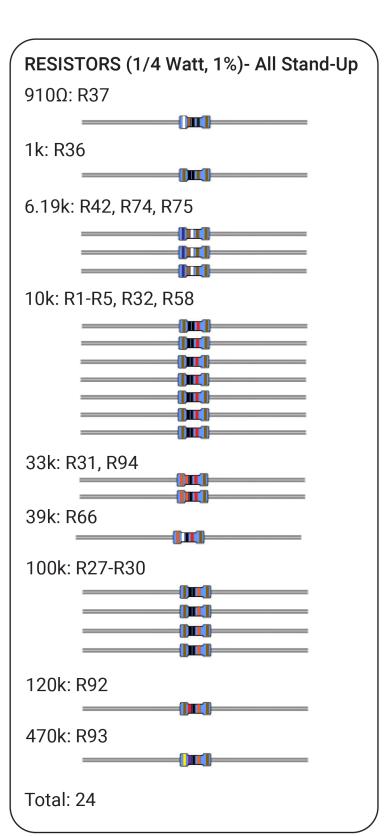
Page 1 of 6

LOGIC BOARD



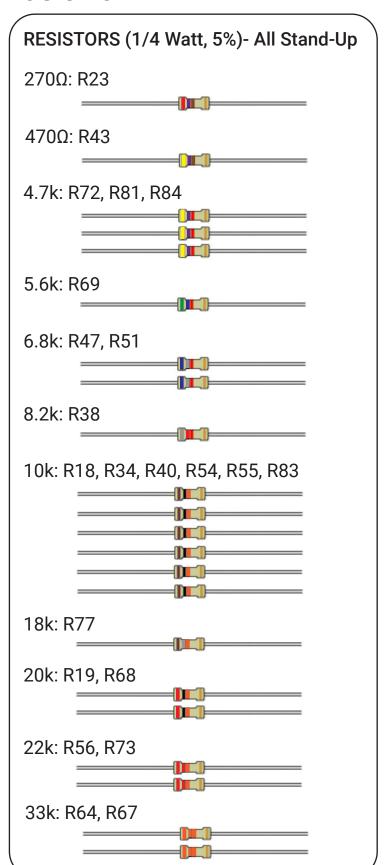






Page 2 of 6

LOGIC BOARD



RESISTORS (1/4 Watt, 5%)- All Stand-Up
47k: R59
56k: R12, R25, R57
75k: R53
100k: R20, R22, R41, R46, R60, R61 R63, R65, R70, R76, R82, R85
200k: R95
360k: R26
10M: R87
Total: 42

Page 3 of 6

LOGIC BOARD

CAPACITORS

5.6nF Film: C23



47pF Ceramic: C21



100pF Ceramic: C17



330pF Ceramic: C19



2.2nF Ceramic: C18



2.7nF Ceramic: C15



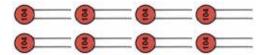
10nF Ceramic: C32, C35



47nF Ceramic: C16



0.1µF Ceramic: C7-C14



10µF Non- Polarized Electrolytic: C2,

C26-C28



22µF Electrolytic: C20

22µF

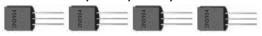
47µF Electrolytic: C29

47μF

Total: 23

TRANSISTORS

2N3904: VT1, VT3, VT4, VT6



2N3906: VT2, VT5



Total: 6

POTENTIOMETERS

1k Single Turn Trim Pot: R45, R50



100k Single Turn Trim Pot: R21



10k Multi Turn Trim Pot: R7



Total: 4

CONNECTORS

1x8 Long Pin Header: XP2-XP5



Total: 4

SWITCHES

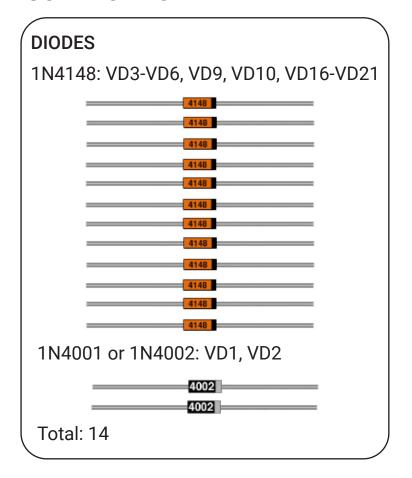
CK1049 Rotary Switch: SW1

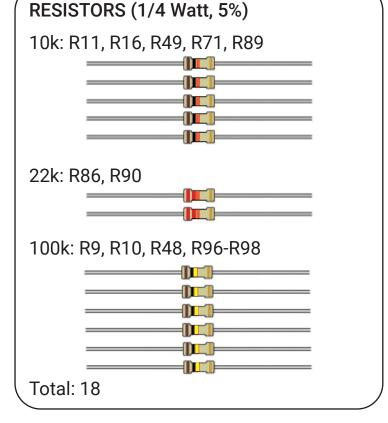


Total: 1 *See end of Visual BOM for orientation

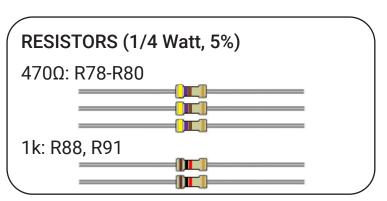
Page 4 of 6

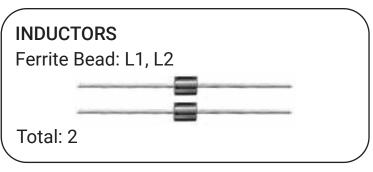
CONTROL BOARD

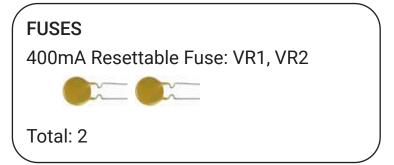












Page 5 of 6

CONTROL BOARD



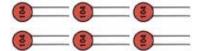
47pF Ceramic: C1



10nF Ceramic: C30



0.1µF Ceramic: C5, C6, C22, C25, C31, C34



10μF Electrolytic: C33, C36



47µF Electrolytic: C3, C4



Total: 12

CONNECTORS

1x8 Pin Socket: XS8-XS11



10 Pin Header: XP1



Total: 5

VOLTAGE REGULATORS

LM337L: DA6



LM317L: DA7



Total: 2

JACKS

3.5mm Mono Jacks: XS1-XS7



Total: 7

POTENTIOMETERS

1k Multi Turn Trim Pot: R33



B10k Vertical Mount: R14, R62



B100k Vertical Mount: R8



Total: 4

OTHER

HARDWARE

2.5mm Screws

3mm Screws



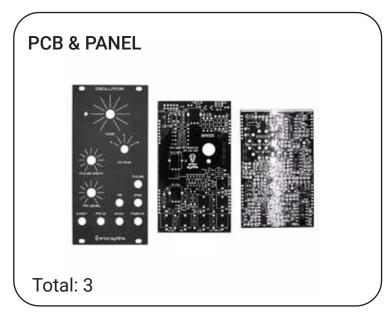
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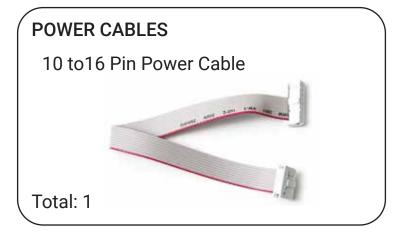


Page 6 of 6

OTHER





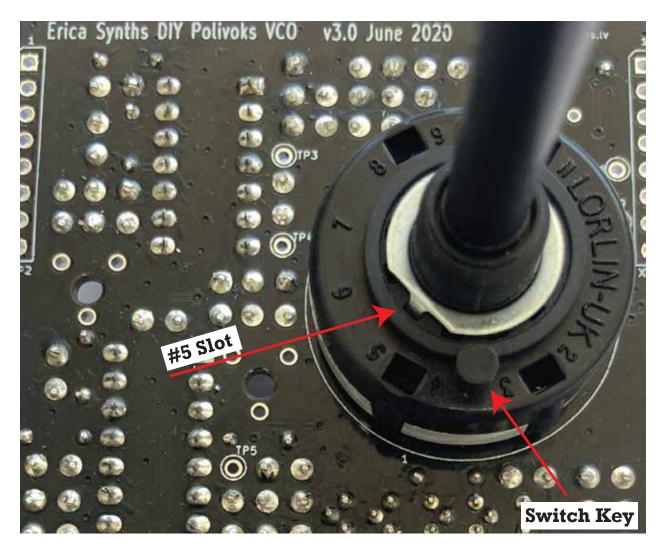


Addendum to Erica Synths Assembly Instructions

- 1. Remove the nut, lock washer, and keyed washer.
- 2. Turn switch fully counter clockwise.
- 3. Place keyed washer on the switch where the key is in slot 5.

Switch is ready to be mounted

Do NOT use the lock washer



Additional Trimmer Information

Some of the trimmers are not explained in the Erica Synths calibration instructions (found in the Erica Synths Github at the end of the assembly guide). They are all optional:

R21: Internal Tune Trimmer

Matches the tuning of two Erica Synths VCOs so that they play the same note when the Tune knob is in the same orientation on both VCOs. First, follow the tuning instruction for both VCOs. Then set the Tune knob to 12:00 on both VCOs and adjust R21 on one VCO so that both modules play the same note.

R45: Temperature Compensation

The exponential converter of the VCO is built around the KR198NT1A chip, which is a matched transistor array. The original Polivoks oscillator didn't have a temperature compensation circuit and a tempco resistor, so instead one of the transistors inside the chip was used to heat the chip from the inside. This was an attempt to maintain a constant temperature in order to avoid frequency drift, but in reality, it didn't work as well as expected. We recommend not adjusting this trimmer.

R50: High Frequency Scale Adjustment

After following the calibration instructions, you may notice some tuning deviations in higher frequencies; adjust R50 to compensate for this.