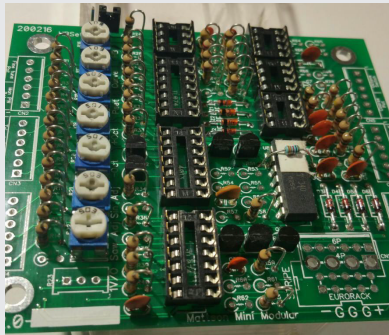




# Mattson VCO 2 DIY Board assembly

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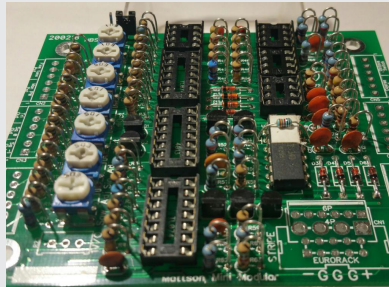
17



## Resistors 5% group 2

Continue with the Group 2, 5% resistors.

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## Resistors 1% group 3

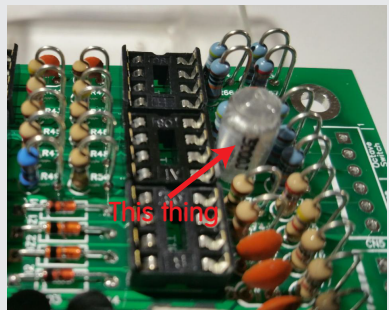
Finish the resistors with the Group 3, 1% resistors

We'll wait..

The 1% resistors typically have a bluish-gray body and an extra color band. Instead of a first digit, second digit, multiplier and tolerance band, they add an extra band for a third digit. The tolerance band is brown...for 1...% So, they read: first digit, second digit, third digit, multiplier...and a brown stripe.

**Phew!** Done with the resistors.

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## C7: Polystyrene capacitor

**C7: .005uF Polystyrene.** Locate C7 and install it in its location next to U6.

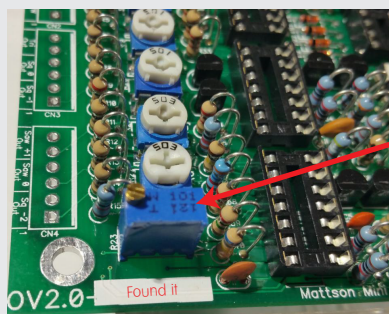
Before soldering the leads to the board, consider the fact that this capacitor is made out of styrofoam (R) with foil wrapped around it.

**If you heat the leads too much, the styrofoam (R) melts** and the capacitor is useless. the leads aren't physically tolerant either. so, go easy on bending or pulling on this.

Why use such a crappy capacitor? well, they're extremely stable and have minimum leak.

Since this is **THE** capacitor that makes the oscillator work, use minimum soldering iron contact time while soldering and don't pull on it.

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## R23: Multi-turn trim pot

Locate **R23: 100K Multi-Turn trim pot** and install it in its location at the bottom of the trim pot column by the serial number.

The **adjustment screw is oriented to the left** as shown.