

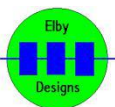


ED722 Slow Oscillator

Construction Guide

Revision 2.0

May 1, 2020



ED722 Slow Oscillator

Construction of the [ED722](#) requires the assembly of 1 board:-

Main board - ED722 PCB ([3D Model](#))

Constructors should refer to the [PCB Overlay](#) for any specific comments regarding the board assemblies, the [Bill of Materials](#) for the current value of all components and [General Construction Notes](#) for general PCB assembly guidelines.

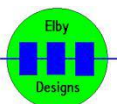
1. Assemble the 2x Jack Carrier Assemblies ([3D Model](#))
2. Mount all components on to the main board except the 2x Jack Carrier Assemblies
3. Install the 2x Jack Carrier Assemblies on to their headers but do not solder.
4. Mount the main board on to the front panel and secure using the supplied nuts
5. Solder the 2x Jack Carrier Assemblies in to position
6. Mount and solder the LED

Calibration

This calibration determines the minimum frequency at which the ED722 will operate reliably.

1. Fit jumper JP1 in to the 'CAL' position
2. Monitor the output of U2 at TP1
3. It will probably exhibit a tendency to drift positive or negative, and the voltage will settle at +12V or -12V.
4. Reset the output voltage to zero by temporarily fitting JP2
5. Adjust P4 until the voltage remains stable at zero volts for a period of several seconds (with JP2 removed).
6. Repeat this adjustment, progressively switching the multimeter to more sensitive ranges until the drift is only a few hundred millivolts in several seconds.

JP1 should be moved to the 'RUN' position for normal operation



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