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Introduction

All the times I disassembled and reassembled the DSO I was bothered about the main PCB which is mounted crook onto the metal frame (Fig 1). The Reason for that is the casing of a quartz oscillator which is a little bit higher than the rest of the devices on the PCB (Fig 2).

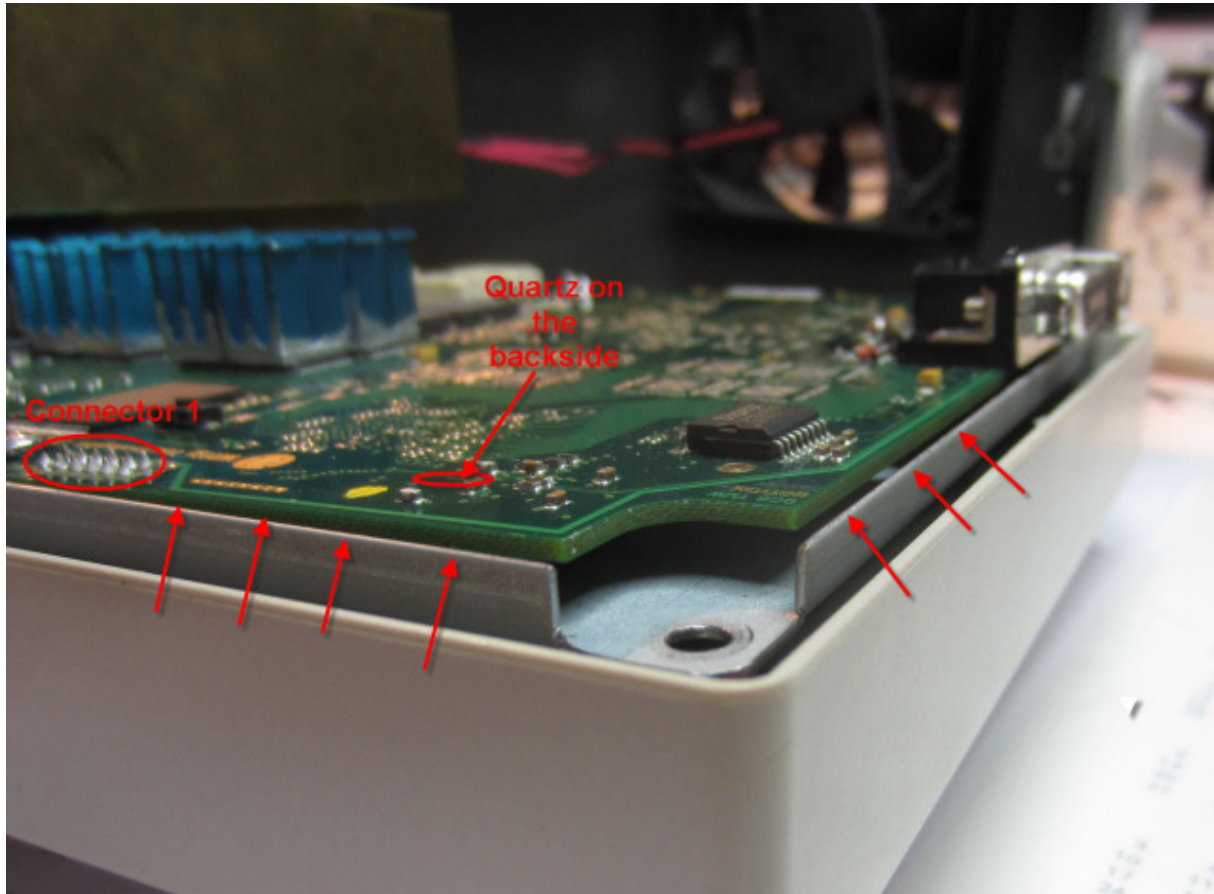


Fig 1: Crook PCB

Also I gave it a thought to cool down the FPGAs with thermo pads wich lead the heat to the metal frame. But this only works with a PCB laying in parallel to the frame.

The Idea

Whate we need is a hole in the metal frame in which the quartz oszillator can reside.

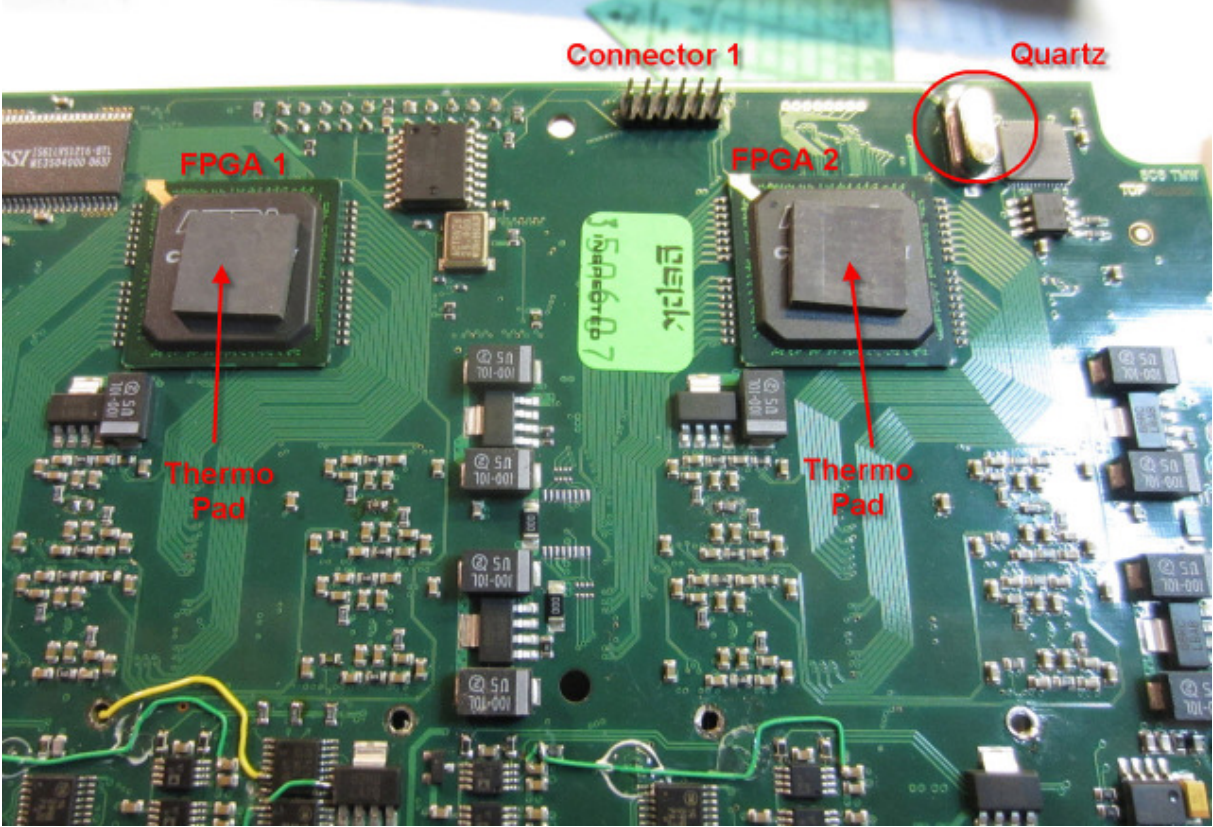


Fig 2: FPGA with thermo pads

We have to disassamble the main PCB and the front panel PCB as well.

What do we need?

We only need a metal drill with 7mm diameter and a small file (like a nail file).

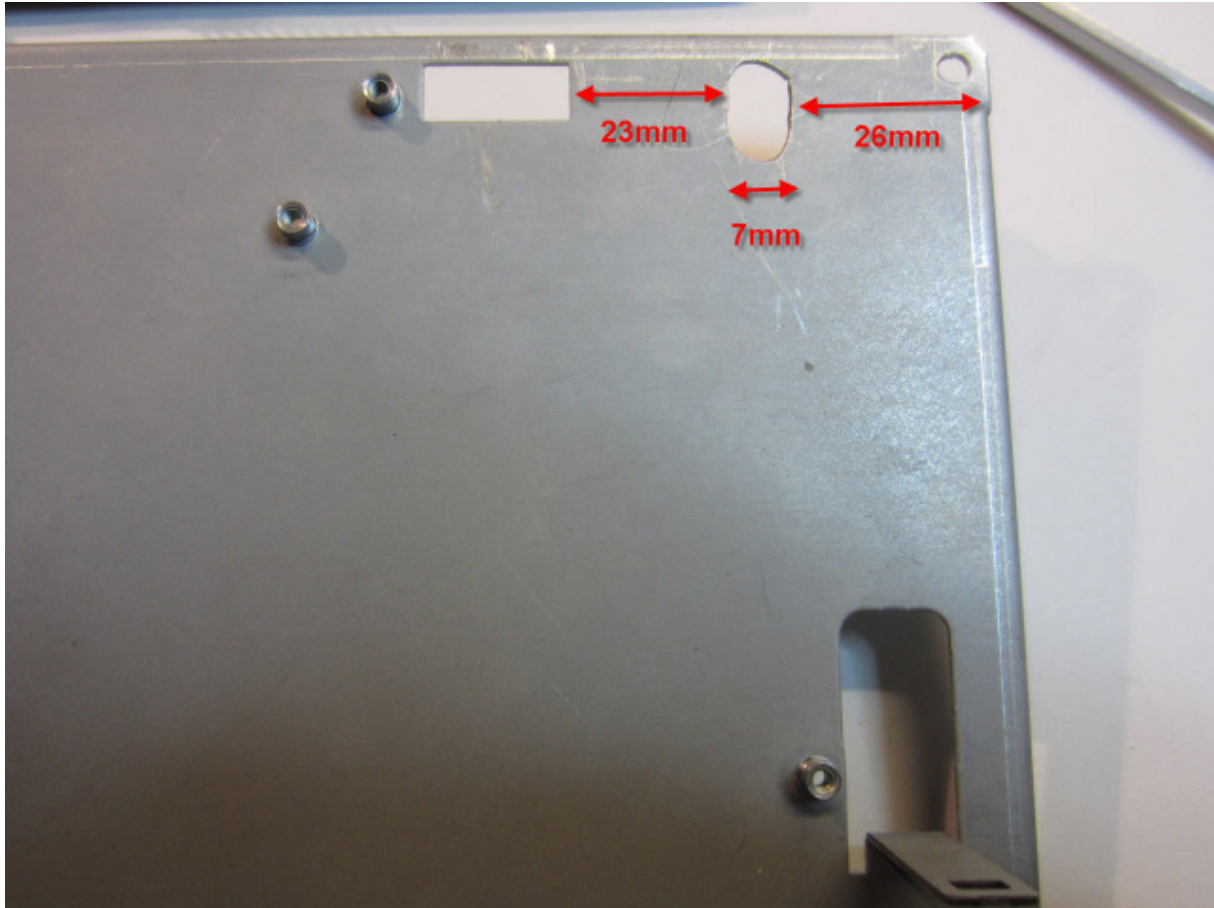


Fig 3: Hole for the quartz

Conclusion

So that's it again guys. Now the quartz is free from any contact to the frame and the thermo pads are pressed onto the surface of the frame by the mounting bolt of the main PCB.

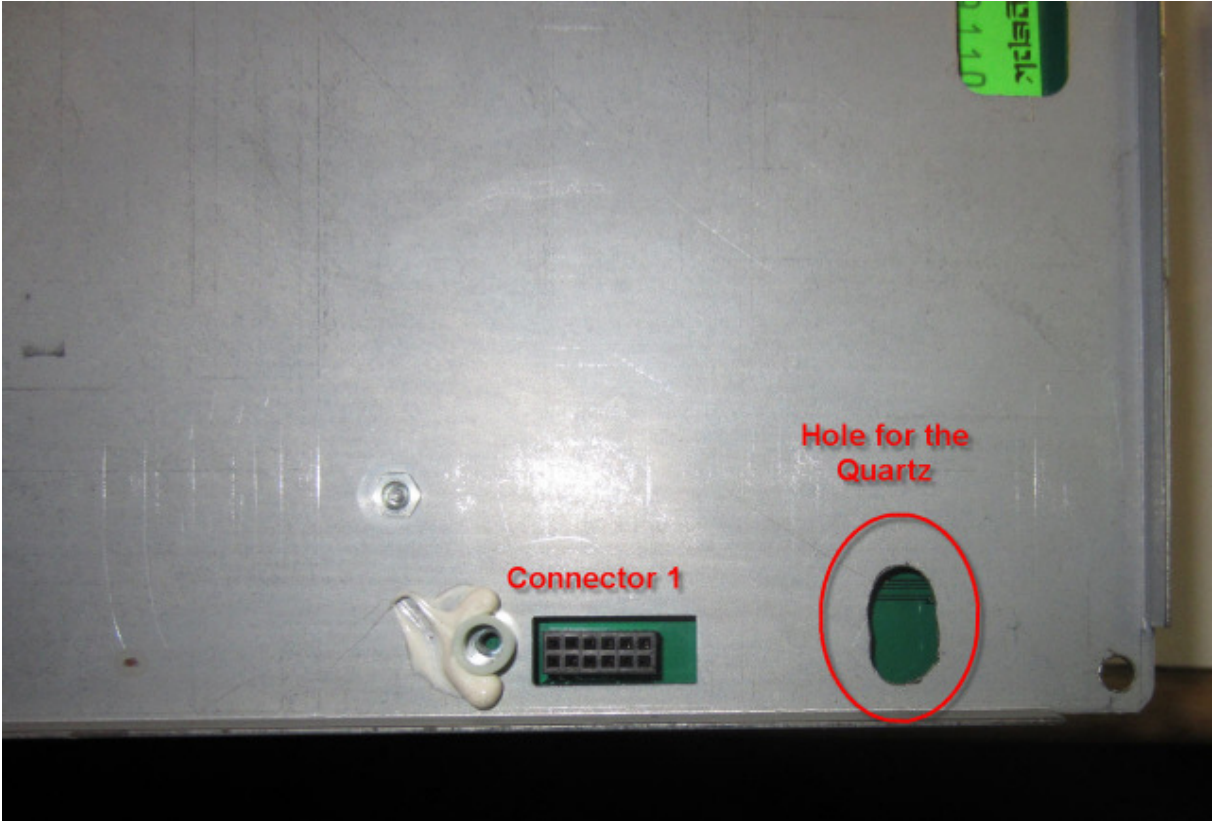


Fig 4: Hole for the quartz