

**SDR-Kits.net**

## QRP2000 USB-Controlled Synthesizer

### Additional Construction and rework information for V1.1 Printed Circuit Board

#### **Introduction:**

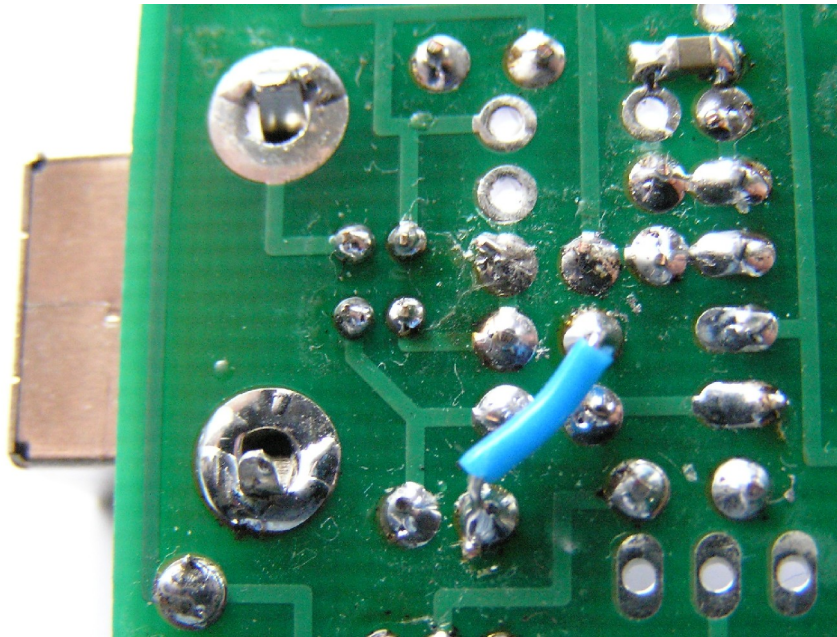
This information is only applicable to SDR-Kits with v1.1 Printed Circuit Boards only

- A potential problem has been found with v1.1 PCB whereby the pad for the anode of Zener diode D3 is not grounded.
- Additional information is provided as to component location of V1.1 Printed Circuit Board to provide better clarity during construction of the kit.

*Note: this information is given in good faith but no responsibility is assumed for any errors or omissions.*

#### **1. Ground pad of D3 not connected**

**Description of Modification:** The anode of Zener diode D3 is floating as the pad and area around it is not connected to ground. This issue should normally not cause an issue in the proper functioning of the USB-Synthesizer but fitting the link is **HIGHLY recommended** to ensure the USB connection to the PC is in accordance with USB specification. Please refer to fig 1 below and fit a short piece of wire between the anode pad of D3 to the nearest ground point, I used the anode of Zener diode D2. Alternatively solder to the ground of the USB socket.

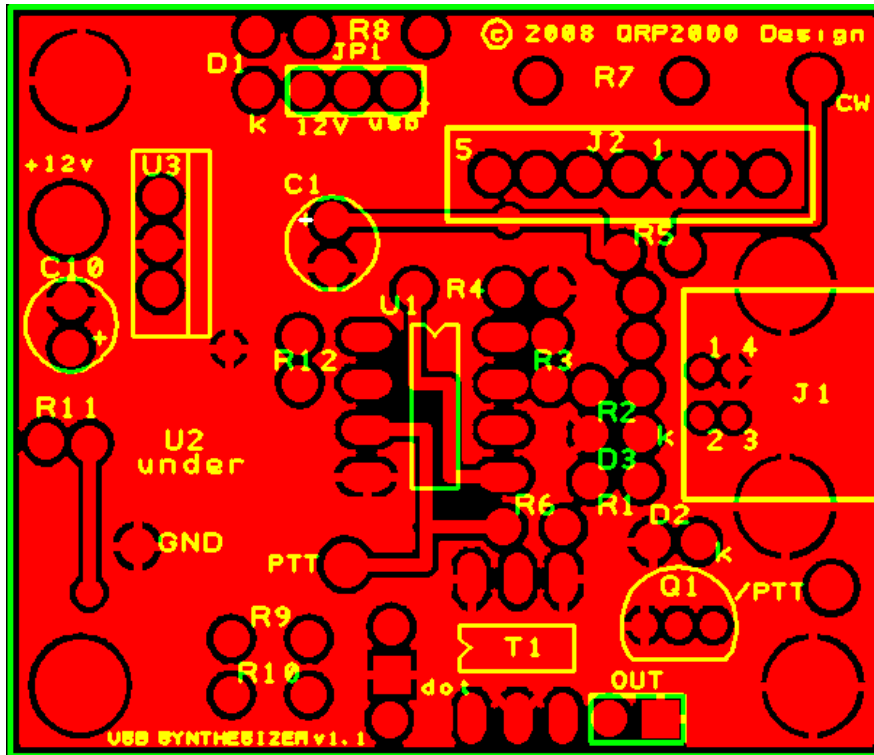


*Fig 1 – Position of link to connect Cathode of D3 to ground*

**Acknowledgements:** Thanks to Paul Clay, OE8PCK for reporting this error.

**2. Component placement V1.1 Printed Circuit Board.**

Please refer to [www.SDR-Kits.net](http://www.SDR-Kits.net) for current USB-Synthesizer Kit documentation: Figure 2 below clarifies the component placing of the V1.1 Printed Circuit Board.



*Figure 2 – USB-Synthesizer Kit PCB V1.1 Component placing*

Please report any issues via the Softrock reflector or you may contact me direct.

Best 73s

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QRP2000 Design Team