

## 3-channel, variable frequency OCXO, 330 kHz to 330 MHz

With adjustable power output

# Manual

Made in EU by PCS elektronik d.o.o. https://www.pcs-electronics.com email: radio@pcs-electronics.com Model: 3-channel, variable frequency OCXO, 330 kHz to 330 MHz

## IMPORTANT NOTE

- Upon receiving your order inspect the packaging material and unit for any damage. Any damage should be reported immediately at the time of delivery so we can make a claim with the shipping company. Take photos and have delivery personnel fill out a report and sign it, these can be used as proof.

### **Characteristics:**

- Three 330 kHz ... 330 MHz (with 1 Hz step) independent outputs, 3.3V CMOS levels
- Additional 10 MHz output, 3.3V CMOS level
- Frequency setting: via USB type C port, any serial terminal program may be used
- Two frequency profiles, switched with button
- Frequency stability: typically, +- 0.1 ppm, adjustment range: +-2 ppm
- Power: 9-15V DC via a 2.1x5.5 mm barrel jack, 0.5A max
- Size: 65x60x25 mm

## **Instructions:**

- Connect your OCXO to the DC power supply.
- The LED on the front panel flashes one or two times depending on the selected profile.
- To switch profiles, press the Set button on the rear panel for more than one second.
- Connect your equipment to independent outputs on the rear panel, or to the 10 MHz output on the front panel.
- Default frequencies are 40 MHz for output 1, 25 MHz for output 2, 24 MHz for output 3.
- To change output frequencies,
- a) Connect the OCXO to your computer by using a standard "type C" USB cable.

b) Run a serial terminal software, such as PuTTY or HyperTerminal, and open a virtual serial port (baud rate and other settings do not matter):

- c) Type "?" (without quotes) and press Enter for a help.
- d) Enter "fq 1 30000000" to set the frequency of output 1 to the value of 30 MHz.
- e) Change other output's frequencies, if needed, and then enter "load" to update the outputs.
- f) The frequency settings will be stored in a non-volatile memory.

### Areas of use:

- Stable reference frequency for radio communications: transmitters, receivers. Amateur radio: QO-100, VHF, SHF;
- Laboratory-grade, stable RF signal source.
- Synchronizing Hi-Fi ADCs and DACs.

**Warning:** Do not exceed maximum supply voltage of 15V or damage may occur to the unit.

Warning: Do not apply any external DC or AC voltages to the outputs

Revisions and errata

V1.0 (Jul 2023): Release version of new manual format

Please report any errors you see in this manual; you will be helping us and many other users out there. Thank you