

Rubidium Oscillator

IQRB-4



Key Features

- Small size
- 5V supply voltage
- CMOS output

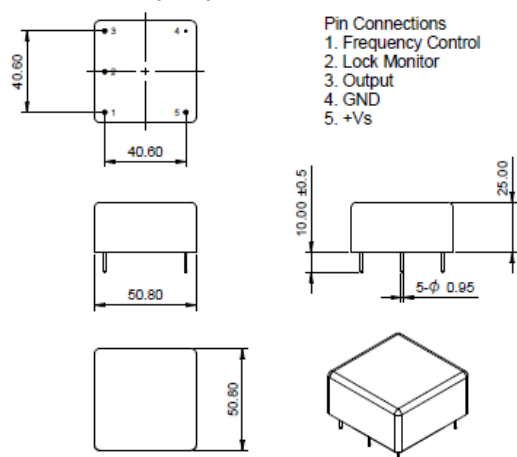
IQRB-4 Rubidium Oscillator

The IQRB-4 is a 5 V rubidium oscillator which bridges the gap between the 12 V powered IQRB-1, IQRB-2 and IQRB-3 and 3.3 V powered ICPT-1. Housed in a 50.8 x 50.8 x 25 mm package the IQRB-4 offers a very good short term stability of 0.05 ppb @ $\tau = 1$ s and a long term stability of 0.005 ppb per day. The IQRB-4 is ideal for synchronisation or as a stand-alone reference clock.

Specification

- 50.8 x 50.8 x 25 mm
- 10 MHz output
- ± 0.08 ppb (typ) stability over -10 to 60 °C
- Typical short term stability of 0.05 ppb @ 1 s
- ± 3 ppb (typ) analog frequency adjustment
- 5 V supply voltage
- CMOS output

Outline (mm)



Applications:

Ideal for synchronization or as a stand-alone reference clock for:

- Communications timing applications
- Network structures
- Smart networks
- Autonomous networks

Stock parts available:

Part Number	Supply Voltage	Package (mm)	Output Compatibility	Frequency	Short Term Stability @ 1 s	Operating Temperature Range
LFRBX0083765	5V	50.8 x 50.8 x 25	CMOS	10 MHz	0.05 ppb	-10 to 60 °C

Additional material available:

Handbook

IQD has done extensive testing and gathered the results into a comprehensive handbook. These include among others short-term stability, power consumption, retrace and frequency over temperature measurements. Contact info@iqdfrequencyproducts.com for further information.