

Rubidium Oscillator

IQRB-3



Key Features

- Low phase noise
- 1 PPS input/output

IQRB-3 Rubidium Oscillator

The IQRB-3 is a low phase noise 12 V rubidium oscillator with 1 PPS input/output. Housed in a 101.2 x 60.7 x 37.7 mm package the IQRB-3 can be synchronised to a 1 PPS signal as well as used as a 1 PPS source. Additionally, it offers superb phase noise performance with a close in phase noise typically at -110 dBc/Hz @ 1 Hz and a noise floor as low as -158 dBc/Hz.

Specification

- 101.2 x 60.7 x 37.7 mm
- 10 MHz output
- ± 0.3 ppb (typ) stability over -20 to 60 °C
- Typical short term stability of $8E-12$ @ $\tau = 100$ s
- 1 PPS input and output
- 12 V supply voltage
- Sine output

Applications:

Frequency and timing reference for:

- Broadcasting
- Communication
- Financial data distribution
- Global Navigation Systems (GPS)
- Industrial equipment

Parts available:

Part Number	Supply Voltage	Package (mm)	Output Compatibility	Frequency	Short Term Stability @ 1 s	Operating Temperature Range
LFRBX0084479	12V	101.2 x 60.7 x 37.7	Sine	10 MHz	5E-11 @ τ	-20 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, phase noise and frequency over temperature measurements. Please contact info@iqdfrequencyproducts.com for further information.

