

Rubidium Oscillator

IQRB-1



Key Features

- Small size
- Wide supply voltage range
- Good short-term stability

IQRB-1 Rubidium Oscillator

With the increasing cross-linkage of people, machines, applications and devices the need for accurate timing is an essential factor for success. A smart world can only run smoothly with all participants being on time. IQD's IQRB-1 contributes to the worldwide timing infrastructure with its accuracy, tight short term as well as superb long term stability. It's perfectly suited as frequency and timing reference for example for communication base stations, broadcasting or industrial equipment.

Specification

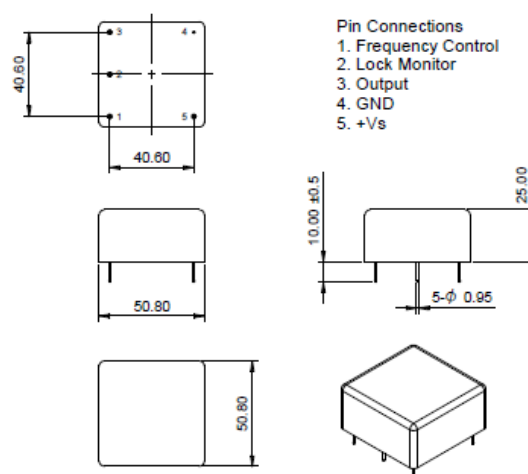
- 50.8 x 50.8 x 25 mm package size
- Frequency Output: 10 MHz
- Ageing: ± 0.05 ppb per month
- Short Term Stability: $8E-11$ @ $\tau = 1$ s
- Current Consumption (Steady State): 0.5A max
($V_s = 12V$, $25^\circ C$ ambient)
- Supply Voltage Range: 12 V to 18 V

Applications:

Frequency and timing reference for:

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

Outline (mm)



Stock parts available:

Part Number	Supply Voltage	Package (mm)	Output Compatibility	Frequency	Short Term Stability @ 1 s	Operating Temperature Range
LFRBX0059244	12 V	50.8 x 50.8 x 25	Sine	10 MHz	$8E-11$ @ τ	-30 to $65^\circ C$

For other specifications please contact IQD.

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.