

## **Oscillator Specification**

Part No. + Packaging: LFSPX0056224REEL

# A.

## Description

 Standard 2 x 1.6 crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed

Model IQXO-541Model Issue number 2

## **Frequency Parameters**

Frequency
 Frequency Tolerance @ 25°C
 Frequency Stability
 Operating Temperature Range
 12.0MHz
 INCLUSIVE
 ±50.00ppm
 -40.00 to 85.00°C

■ Ageing ±5ppm

## **Frequency Stability**

 Inclusive of tolerance, supply voltage and load variations over the operating temperature range

#### **Electrical Parameters**

Supply Voltage
 Supply Voltage Tolerance
 ±10%
 Current Draw
 Standby Current: 10µA max (pad 1 at logic '0')

#### **Output Details**

Output Compatability
 Output Load
 Rise and Fall time (10% - 90%)
 Duty Cycle
 CMOS
 15pF max
 5.0ns max
 45/55%

### **Output Control**

■ Standby Operation: Logic '1' (≥70%VS) to pad 1 enables oscillator output

Logic '0' (≤30%VS) to pad 1 disables oscillator output; when disabled the oscillator output goes to the high impedance state

No connection to pad 1 enables oscillator output

## **Environmental Parameters**

- Vibration: IEC 60068-2-6: 1.5mm amplitude, 10Hz-55Hz, 1min in 3 mutually perpendicular planes, duration 2hrs each plane (total 6hrs)
- Storage Temperature Range: -40 to 85°C
- Impact: Weight of 10g dropped to centre of part from a height of 6mm

## Compliance

■ RoHS Status Compliant■ REACh Status Compliant

## **Packaging**

■ Pack Type: Reel Tape and reel in accordance with

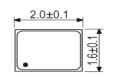
EIA-481-D

Pack Size 3,000

■ Alternative packing option available

This document is correct at the time of printing; please contact your local office for the latest version.

#### Outline (mm)



Pad Connections

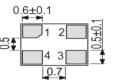
1. Standby Operation

2. GND

3. Output 4. +Vs



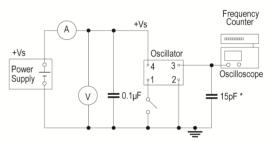
Solder Pad Layout





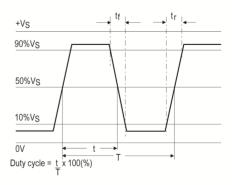
Underside View

### **Test Circuit**



<sup>\*</sup> Inclusive of jigging and equipment capacitance

## **Wave Form**



## **Sales Office Contact Details:**

UK: +44 (0)1460 270200 France: +33 (0)5 34 50 91 18 Germany: +49 (0)7264 9145-0 USA: +1 (0)408.273.4530 Email: info@iqdfrequencyproducts.com Web: www.iqdfrequencyproducts.com

Printed on 19 Feb 13 12:25 Page 1 of 1