

# **Oscillator Specification**

Part No. + Packaging: LFSPX0056217REEL

# Description

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

IQXO-542

Model Issue number 2

# **Frequency Parameters**

Frequency 24.5760MHz ■ Frequency Tolerance @ 25°C **INCLUSIVE** ■ Frequency Stability ±50.00ppm

Operating Temperature Range -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 1.8V Supply Voltage Tolerance +10% Current Draw 5mA max ■ Standby Current: 10µA max (pad 1 at logic '0')

#### **Output Details**

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

#### **Output Control**

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

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

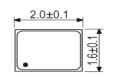
EIA-481-D

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

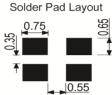
2. GND

3. Output 4. +Vs

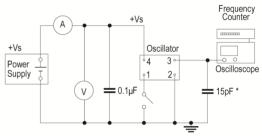


Underside View

# 0.7

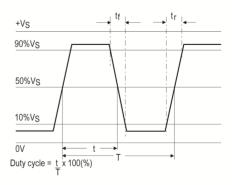


#### **Test Circuit**



<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 USA: +1 (0)408.273.4530 Germany: +49 (0)7264 9145-0

Email: info@iqdfrequencyproducts.com Web: www.iqdfrequencyproducts.com

Printed on 19 Feb 13 12:05 Page 1 of 1