

# **Oscillator Specification**

Part No. + Packaging: LFSPX0056229REEL

# 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
 24.0MHz
 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

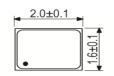
EIA-481-D

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

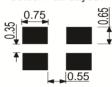
2. GND

3. Output 4. +Vs

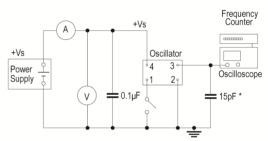


# Solder Pad Layout

□0.7 Underside View

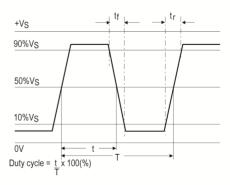


**Test Circuit** 



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

### Wave Form



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