

Oscillator Specification

Part No. + Packaging: LFSPX0056168REEL

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 12.0MHz ■ 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 3mA 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

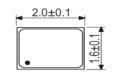
EIA-481-D

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)

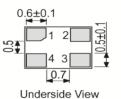


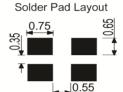
Pad Connections 1. Standby Operation

2. GND

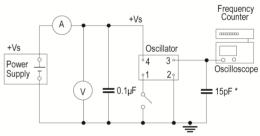
3. Output 4. +Vs





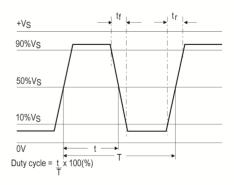


Test Circuit



^{*} Inclusive of jigging and equipment capacitance

Wave Form



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