Crystal Clock Oscillator Specification

Part No. + Packaging: ***LFSPXO068248Reel***

Description

- Standard 2 x 1.6 crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed
- Model IQXO-540
- Model Issue number 2

Frequency Parameters

- Frequency 32.0MHz
- Frequency Stability ±50.00ppm
- Operating Temperature Range -40.00 to 85.00°C
- Ageing ±5ppm

Electrical Parameters

- Supply Voltage 3.3V ±10%
- Current Draw 7.000mA
- Standby Current: 10µA max (pad 1 at logic '0')

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF max
- Rise and Fall Time 5.0ns max
- Duty Cycle 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

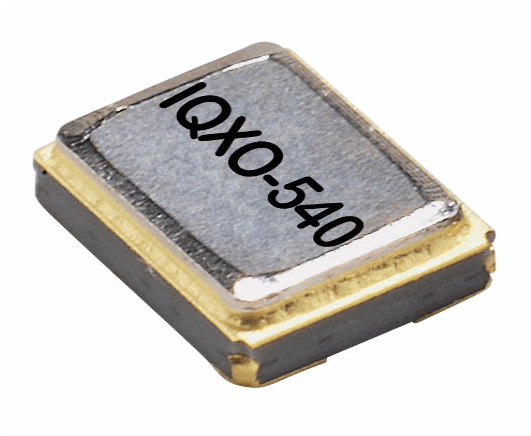
- Impact: Weight of 10G dropped to centre of part from a height of 6mm
- Vibration: IEC 60068-2-6: 1.5mm amplitude, 10Hz-55Hz, 1min in 3 mutually perpendicular planes, duration 2hrs each plane (total 6hrs)
- Storage Temperature Range: –40 to 85°C
- RoHS Terminations
- RoHS Reflow Temp 250°C max

Compliance

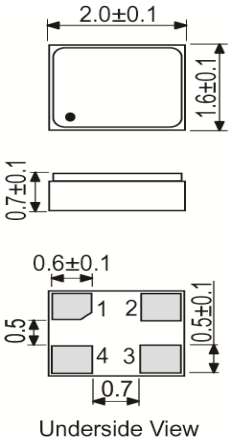
- RoHS Status (2011/65/EU) Compliant
- REACh Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D
  Pack Size: 1,000
- *Alternative packing option available*

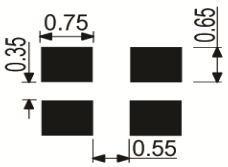


Outline (mm)

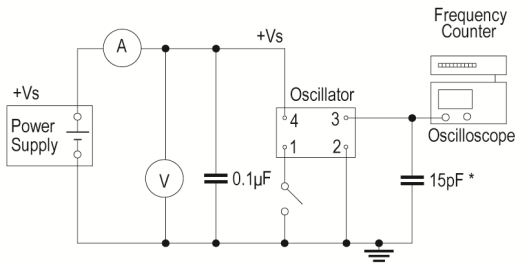


Pad Connections
1. Standby Operation
2. GND
3. Output
4. +Vs

Solder Pad Layout



Test Circuit

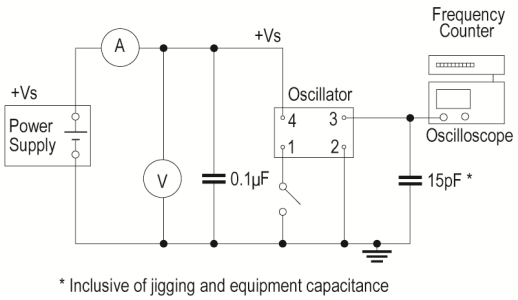


* Inclusive of jigging and equipment capacitance

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Test Circuit



* Inclusive of jigging and equipment capacitance

Wave Form

