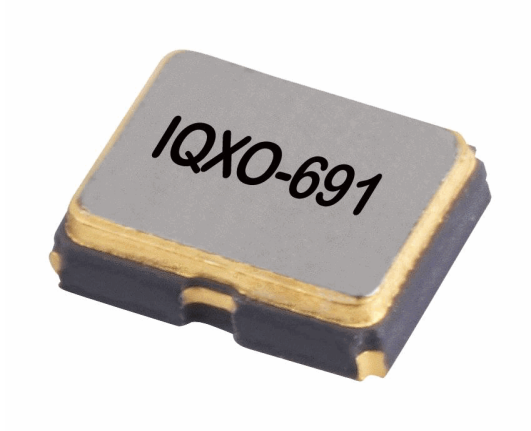
Crystal Clock Oscillator Specification

Part No. + Packaging: ***LFSPXO076038Cutt***

Description

- 1.2V low voltage oscillator in a hermetically sealed 2.5 x 2.0mm surface mount ceramic package.
- Model IQXO-691 2520-12
- Model Issue number 1



Frequency Parameters

- Frequency 40.0MHz
- Frequency Stability ±50.00ppm
- Operating Temperature Range -40.00 to 85.00°C
- Ageing ±3ppm max in 1st year @ 25°C

Electrical Parameters

- Supply Voltage 1.2V ±5%
- Current Draw 10.000mA

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF
- Rise and Fall Time 7.0ns max
- Duty Cycle 45/55%
- Output Voltage Levels:
  Output Low (VoL): 10%Vs max
  Output High (VoH): 90%Vs min
- Start Up Time: 10ms max

Output Control

- Output Enable:
  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 (internal pull-up resistor).
- Stand-by Current: 100µA max

Noise Parameters

- RMS Phase Jitter (12kHz to 20MHz): 1ps max

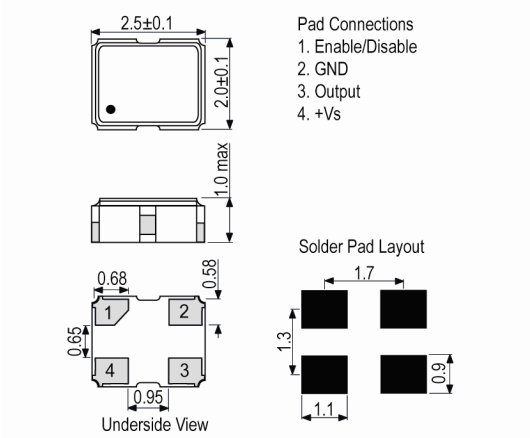
Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Mechanical Shock: MIL-STD-883, Method 2002, Condition B.
- Vibration: MIL-STD-883, Method 2007, Condition A.
- Moisture Resistance: MIL-STD-883, Method 1004.
- Thermal Cycling: MIL-STD-883, Method 1010, Condition B.
- Solderability: MIL-STD-883, Method 2003.
- Resistance to Soldering Heat: MIL-STD-202, Method 210, Condition K.
- Fine Leak Test: MIL-STD-883, Method 1014, Condition A.
- Gross Leak Test: MIL-STD-883, Method 1014, Condition C.

Manufacturing Details

- Maximum Process Temperature: 260°C (10secs max)
- Note: Please connect a bypass capacitor of 0.1µF between +Vs and circuit ground.

Outline (mm)



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Compliance

- RoHS Status (2011/65/EU) Compliant
- REACh Status Compliant
- MSL Rating (JDEC-STD-033): 1

Packaging Details

- Pack Style: Cutt Cut tape
  Pack Size: 100
- *Alternative packing option available*

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