# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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# **Crystal Clock Oscillator Specification** Part No. + Packaging: LFSPX0076039Reel

#### Description

0.9V low voltage oscillator in a hermetically sealed 2.5 x 2.0mm surface mount ceramic package.

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- Model IQXO-691 2520-09
- Model Issue number

## **Frequency Parameters**

Frequency 24.0MHz **Frequency Stability** ±50.00ppm **Operating Temperature Range** -40.00 to 85.00°C Ageing ±3ppm max in 1st year @ 25°C

#### **Electrical Parameters**

- 0.9V ±5% Supply Voltage 10.000mA
- Current Draw

# **Output Details**

- **Output Compatibility**
- Drive Capability
- Rise and Fall Time
- 15pF 7.0ns max 45/55%

CMOS

- Duty Cycle **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**

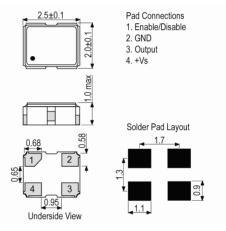
- Storage Temperature Range: -55 to 125°C
- Mechanical Shock: MIL-STD-883, Method 2002, Condition B.
- Vibration: MIL-STD-883, Method 2007, Condition A.
- Moisture Resistance: MIL-STD-883, Method 1004.
- Thermal Cycling: MIL-STD-883, Method 1010, Condition B.
- Solderability: MIL-STD-883, Method 2003.
- 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: Reel Tape & reel in accordance with EIA-481D
  Pack Size: 1,000
- Alternative packing option available

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