

**Description**

- 0.9V low voltage oscillator in a hermetically sealed 2.5 x 2.0mm surface mount ceramic package.
- Model IQXO-691 2520-09
- Model Issue number 1

**Frequency Parameters**

- Frequency 24.0MHz
- Frequency Stability  $\pm 50.00$ ppm
- Operating Temperature Range  $-40.00$  to  $85.00^\circ\text{C}$
- Ageing  $\pm 3$ ppm max in 1st year @  $25^\circ\text{C}$

**Electrical Parameters**

- Supply Voltage  $0.9\text{V} \pm 5\%$
- Current Draw  $10.000\text{mA}$

**Output Details**

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

**Output Control**

- Output Enable:  
Logic '1' ( $\geq 70\% V_s$ ) to pad 1 enables oscillator output.  
Logic '0' ( $\leq 30\% V_s$ ) 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:  $100\mu\text{A max}$

**Noise Parameters**

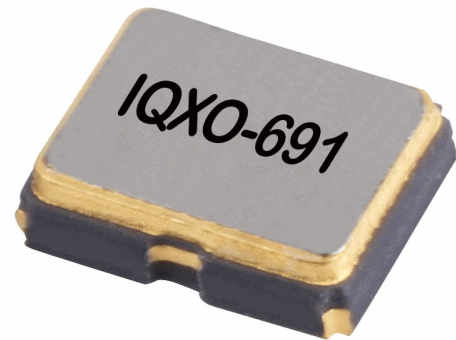
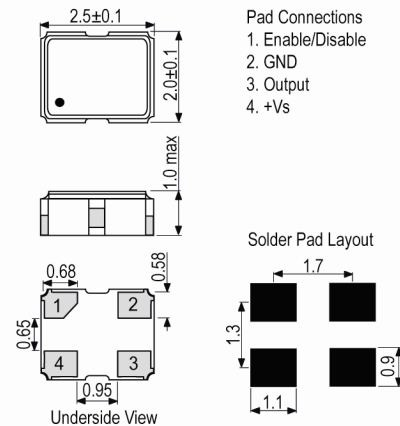
- RMS Phase Jitter (12kHz to 20MHz):  $1\text{ps max}$

**Environmental Parameters**

- Storage Temperature Range:  $-55$  to  $125^\circ\text{C}$
- 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:  $260^\circ\text{C}$  (10secs max)
- Note: Please connect a bypass capacitor of  $0.1\mu\text{F}$  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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