


Description

- Standard 2.5 x 2.0 oscillator in a ceramic package with a hermetically sealed metal lid
- Model IQXO-791
- Model Issue number 1

Frequency Parameters

- Frequency 22.57920MHz
- Frequency Stability $\pm 25.00\text{ppm}$
- Operating Temperature Range 0.00 to 70.00°C
- Ageing $\pm 3\text{ppm}$ max per year @ 25°C

Electrical Parameters

- Supply Voltage 3.3V $\pm 10\%$
- Current Draw 10.00mA

Output Details

- Output Compatibility HCMOS
- Drive Capability 15pF
- Rise and Fall Time 10.0ns max
- Duty Cycle 40/60%
- Output Voltage High: 90% of Vs min
Output Voltage Low: 10% of Vs max

Output Control

- Standby Operation:
Logic '1' ($\geq 70\%$ Vs) to pad 1 enables oscillator output
Logic '0' ($\leq 30\%$ 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
- Start Up Time: 10ms max

Noise Parameters

- Period Jitter (pk-pk): $\pm 100\text{ps}$ max
- Period Jitter (1σ): $\pm 25\text{ps}$ max
- Phase Jitter (12kHz to 20MHz): 1ps rms max

Environmental Parameters

- Shock: MIL-STD-202, Method 213
- Vibration: MIL-STD-883, Method 2007, Condition A
- Storage Temperature Range: -55 to 125°C

Manufacturing Details

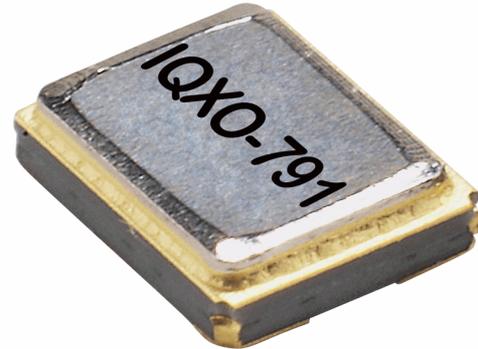
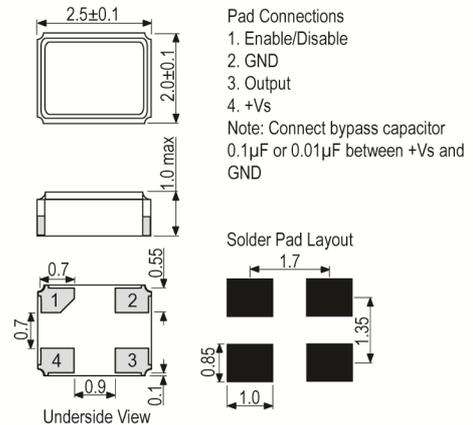
- Do not connect inductor or bead between pad 2 and GND as it can make the output unstable

Compliance

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

Packaging Details

- Pack Style: Bulk Loose in bulk pack
Pack Size: 1
- *Alternative packing option available*


Outline (mm)

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