

ISSUE 1; July 2024

Description

- Standard 2.5 x 2.0mm oscillator in a ceramic package with a hermetically sealed metal lid



Frequency Parameters

- Frequency: 1.0MHz to 50.0MHz
- Frequency Stability: $\pm 20.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Ageing: $\pm 3\text{ppm}$ max per year

Electrical Parameters

- Supply Voltage: 2.5V $\pm 5\%$

Operating Temperature Ranges

- 0 to 70°C
- 40 to 85°C

Output Details

- Output Compatibility: HCMOS
- Drive Capability: 15pF
- Output Voltage High: 90% of V_s min
Output Voltage Low: 10% of V_s max

Output Control

- Standby Function (pin1):
No Connection = Output Enabled
>70% V_s = Output Enabled
<30% V_s = Output Disabled
When disabled output goes to high impedance state
- Start Up Time: 10ms max

Noise Parameters

- Jitter (Phase 12kHz to 20MHz): 1ps max
- Jitter (Period One Sigma): $\pm 10\text{ps}$ typ
- Jitter (Period pk-pk): $\pm 80\text{ps}$ typ

Environmental Parameters

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

Manufacturing Details

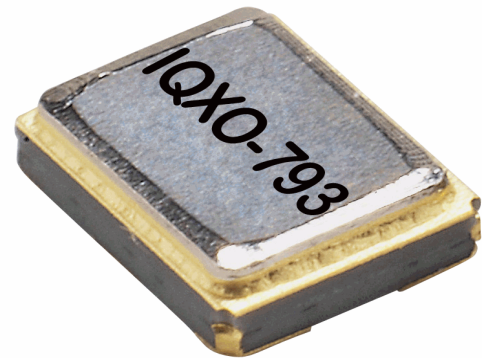
- RoHS Terminations: Au

Compliance

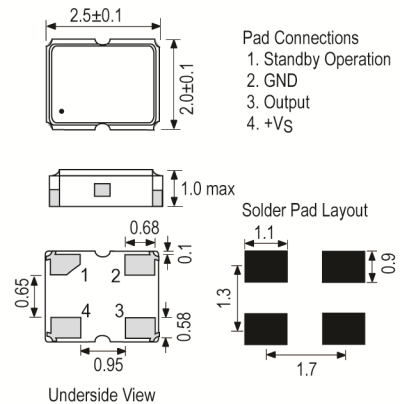
- RoHS Status (2015/863/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481D
Standard Pack Quantity: 3,000
- Pack Style: Cutt In tape, cut from a reel
Standard Pack Quantity: 100



Outline (mm)



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Electrical Specification - maximum limiting values 2.5V \pm 5%

Frequency Min	Frequency Max	Temperature Range	Stability	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
1.0MHz	50.0MHz	0 to 70 -40 to 85	\pm 20.0 \pm 50.0	10 10	10 10	40/60% 40/60%

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