

ISSUE 1; July 2016

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 VS min
- Output Voltage Low: 10% of VS max

Output Control

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

Noise Parameters

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

Environmental Parameters

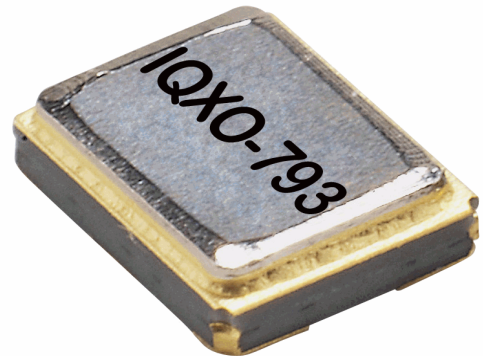
- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-202, Method 213. Or comparable.
- Vibration: MIL-STD-883, Method 2007. Or comparable.

Compliance

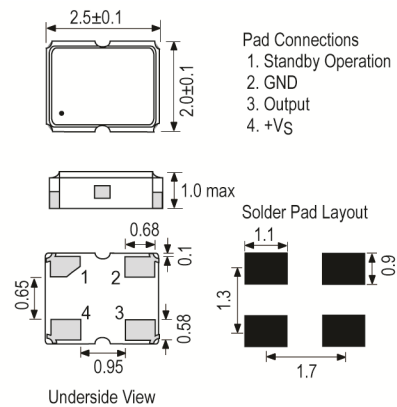
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Reel: Tape & reel in accordance with EIA-481D
Pack Size: 3,000
- Pack Style: Cutt: In tape, cut from a reel
Pack Size: 1



Outline (mm)



Sales Office Contact Details:

UK: +44 (0)1460 270200
Germany: 0800 1808 443

France: 0800 901 383
USA: +1.760.318.2824

Email: info@iqdfrequencyproducts.com
Web: www.iqdfrequencyproducts.com

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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