

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  $V_S$  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 (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

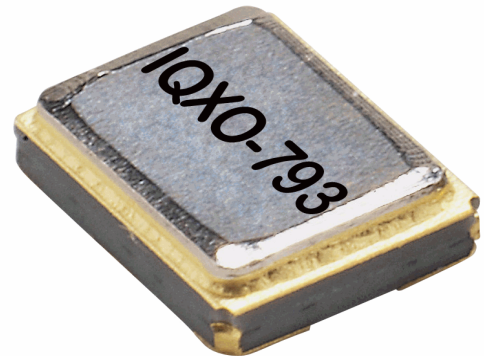
- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-202, Method 213. Or comparable.
- Vibration: MIL-STD-883, Method 2007. Or comparable.

### Compliance

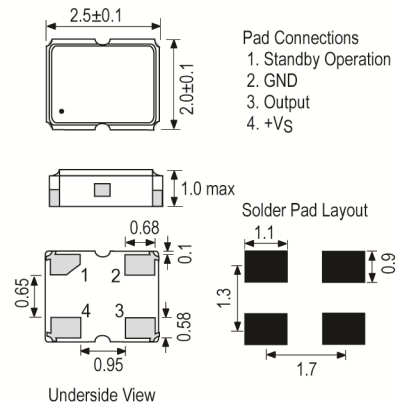
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### 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)



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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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