

ISSUE 3; February 2020

Description

- 2.0 x 1.2mm SMD crystal in a hermetically sealed ceramic package with an electron beam sealed metal lid. Suitable for real time clock applications.

Frequency Parameters

- Frequency: 32.768kHz
- Frequency Tolerance: $\pm 20.00\text{ppm}$
- Tolerance Condition: @ 25°C $\pm 5^\circ\text{C}$
- Ageing: $\pm 3\text{ppm}$ max per year @ 25°C
- Frequency Stability Coefficient: $-0.03/^\circ\text{C}^2$ typ
- Drive Level: $0.1\mu\text{W} \pm 0.01\mu\text{W}$ recommended, $\pm 0.5\mu\text{W}$ max
- Motional Capacitance (C1): 7fF typ

Electrical Parameters

- Load Capacitance (CL): 6.0pF to 12.5pF
- Shunt Capacitance (C0): 1.3pF typ, 1.7pF max

Operating Temperature Ranges

- 40 to 85°C

Environmental Parameters

- Storage Temperature Range: -40 to 85°C
- Shock: IEC 60068-2-27: 1000G, 1ms, 3 times in each of 3 mutually perpendicular planes.
- Vibration: IEC 60068-2-6: 1.5mm amplitude, 10Hz-55Hz, 1min in 3 mutually perpendicular planes, duration 2hrs each plane (total 6hrs).

Manufacturing Details

- Maximum Reflow Temperature: 260°C for 5secs max
- RoHS Terminations: Au over Ni over W base
- RoHS Reflow: 260°C max for 5secs max

Ordering Information

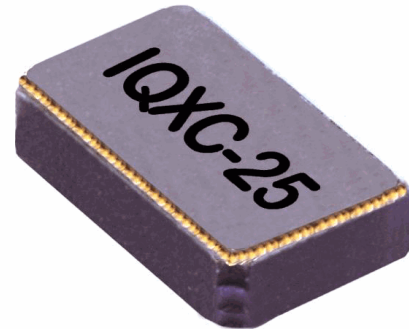
- Frequency Model*
Frequency Tolerance (@ 25°C)
Load Capacitance*
(*minimum required)
- Example
32.768kHz IQXC-25
20/-/+12.5

Compliance

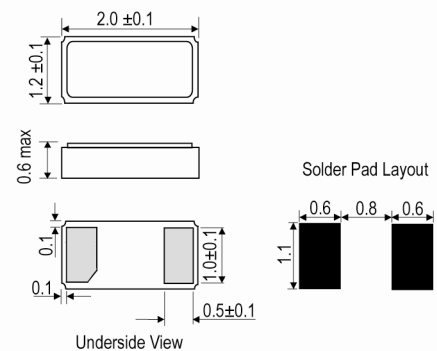
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

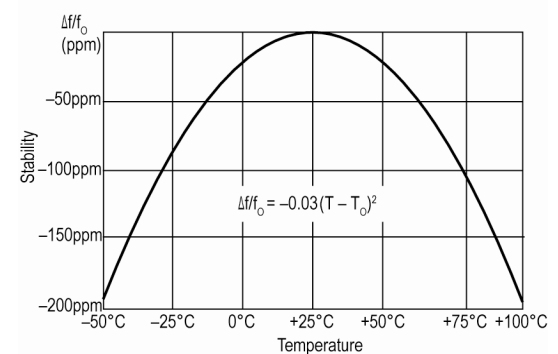
- Pack Style: Cutt In tape, cut from a reel
Pack Size: 100
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 3,000



Outline (mm)



Typical Frequency Stability Characteristics



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Electrical Specification - maximum limiting values

Frequency	Temperature Range	Stability	Over Tone Order	ESR
	°C	ppm		Ω
32.768000kHz	-40 to 85	-	Fundamental	90,000

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