

ISSUE 1; July 2016

Description

- 1.6 x 1.0mm SMD crystal in a hermetically sealed ceramic package.
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 in 1st year @ 25°C $\pm 3^\circ\text{C}$
- Frequency Stability Coefficient: $-0.035 \pm 10\%/^\circ\text{C}^2$ typ

Electrical Parameters

- Load Capacitance (CL) 6.0pF to 12.5pF
- Shunt Capacitance (C0) 1.1pF typ
- Drive Level 500nW max

Operating Temperature Ranges

- 40 to 85°C

Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Drop: 100g dummy, 150cm drop (3 directions x 10 times) onto concrete
- Vibration: 1.5mm amplitude, 10Hz-500Hz, 15mins in 3 mutually perpendicular planes, duration 2hrs each plane

Manufacturing Details

- Maximum Process Temperature: 260°C for 10secs max

Ordering Information

- Frequency Model*
- Frequency Tolerance (@ 25°C)
- Load Capacitance* (*minimum required)
- Example
32.768kHz IQXC-90
20I-I/12.5

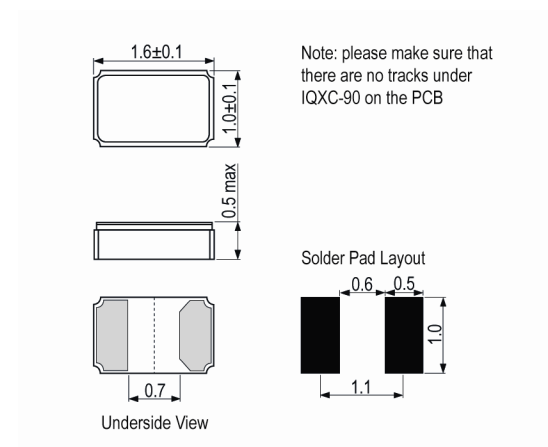
Compliance

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

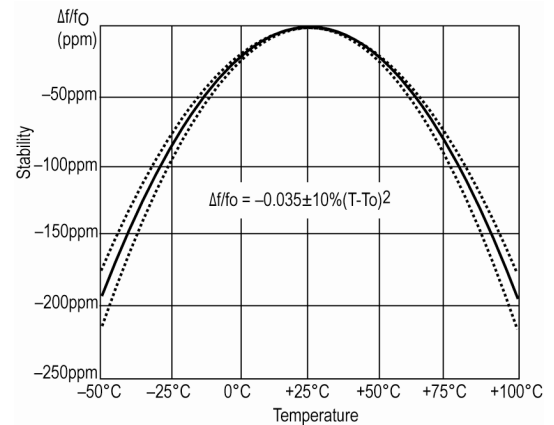
Packaging Details

- Pack Style: Cutt Cut tape
Pack Size: 1
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 5,000

Outline (mm)



Typical Frequency Stability Characteristics



Sales Office Contact Details:

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Electrical Specification - maximum limiting values

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

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