

ISSUE 4; March 2021

### Description

- A quartz crystal in a ceramic package with a electron beam sealed metal lid.

### Frequency Parameters

- Frequency 32.0MHz to 80.0MHz
- Frequency Tolerance  $\pm 7.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Frequency Stability  $\pm 10.00\text{ppm}$  to  $\pm 50.00\text{ppm}$

### Electrical Parameters

- Load Capacitance (CL) 5.0pF to 30.0pF
- Shunt Capacitance (C0) 5pF max
- Drive Level 100 $\mu$ W max

### Operating Temperature Ranges

- -20 to 70°C
- -40 to 85°C

### Environmental Parameters

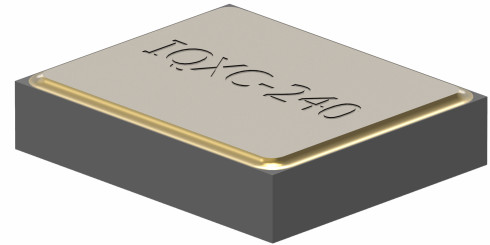
- Storage Temperature Range: -55 to 125°C

### Compliance

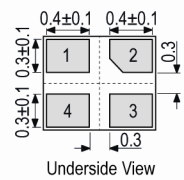
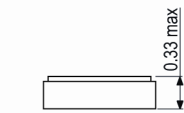
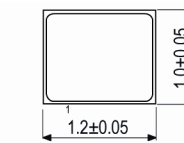
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### Packaging Details

- Pack Style: Cutt Cut tape  
Pack Size: 100
- Pack Style: Reel Tape & reel in accordance with EIA-481D  
Pack Size: 5,000



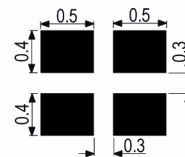
### Outline (mm)



### Pad Connections

1. Crystal
  2. GND(Lid)
  3. Crystal
  4. N/C
- Note: connect pad 2 to GND for correct operation.

### Solder Pad Layout



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**Electrical Specification - maximum limiting values**

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
		°C	ppm		Ω
32.0MHz	33.0MHz	-20 to 70 -40 to 85	±10 ±15	Fundamental	100
33.000001MHz	37.0MHz	-20 to 70 -40 to 85	±10 ±15	Fundamental	80
37.000001MHz	80.0MHz	-20 to 70 -40 to 85	±10 ±15	Fundamental	60

\*Stability Maximum values ±50ppm

*This document was correct at the time of printing; please contact your local sales office for the latest version.*

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