

ISSUE 1; June 2019

Description

- High frequency fundamental quartz crystal in a miniature ceramic package with a seam-sealed metal lid.

Frequency Parameters

- Frequency: 16.0MHz to 200.0MHz
- Frequency Tolerance: $\pm 10.00\text{ppm}$ to $\pm 50.00\text{ppm}$
- Frequency Stability: $\pm 10.00\text{ppm}$ to $\pm 50.00\text{ppm}$

Electrical Parameters

- Load Capacitance (CL): 10.0pF to 30.0pF
- Shunt Capacitance (C0): 7pF max
- Drive Level: 2uW typ, 0.1mW max

Operating Temperature Ranges

- 10 to 60°C
- 40 to 85°C

Environmental Parameters

- Drop Test: dropped 3 times from a height of 75cm onto a hard wooden board.
- Vibration (MIL-STD-202F, Method 204D, Condition D, 20g): frequency range 10 ~ 2000Hz, X, Y and Z axis, 4 hours in each axis (total 12 hrs).
- Storage Temperature Range: -55 to 125°C

Manufacturing Details

- RoHS Terminations: Au (0.3~1.0um) over Ni (1.27~8.89um)

Ordering Information

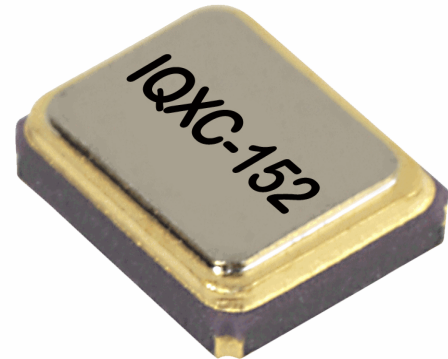
- Minimum required*
Frequency*
Model*
Frequency Tolerance (@25°C)*
Frequency Stability (over operating temperature range*)
Operating Temperature Range*
Load Capacitance*
Overtone*
- Example:
20.0MHz IQXC-152
50/50/-40 to 80C/20 FUND

Compliance

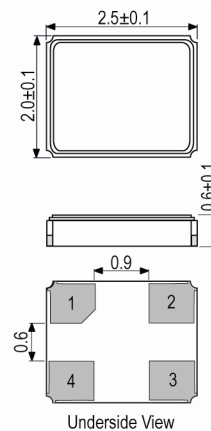
- RoHS Status (2015/863/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

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



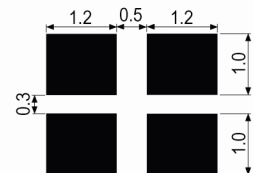
Outline (mm)



Pad Connections

- Crystal
- GND
- Crystal
- GND

Solder Pad Layout



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Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR (Note 1)
		°C	ppm		Ω
16.0MHz	19.999999MHz	-10 to 60 -40 to 85	±10 ±15	Fundamental	100 100
20.0MHz	29.999999MHz	-10 to 60 -40 to 85	±10 ±15	Fundamental	90 90
30.0MHz	69.999999MHz	-10 to 60 -40 to 85	±10 ±15	Fundamental	60 60
70.0MHz	200.0MHz	-10 to 60 -40 to 85	±30 ±30	Fundamental	60 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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