

ISSUE 1; July 2018

### 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
- 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

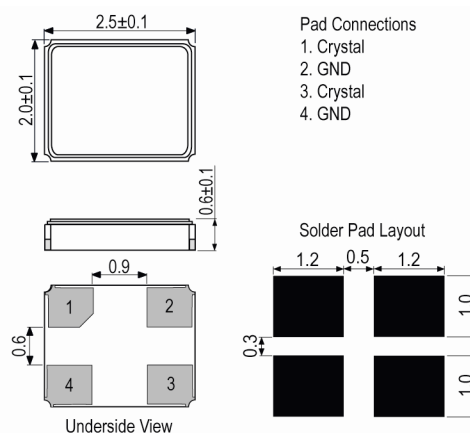
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### Packaging Details

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



### Outline (mm)



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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
20.0MHz	29.999999MHz	-10 to 60 -40 to 85	±10 ±15	Fundamental	90
30.0MHz	69.999999MHz	-10 to 60 -40 to 85	±10 ±15	Fundamental	60
70.0MHz	200.0MHz	-10 to 60 -40 to 85	±30 ±30	Fundamental	60

\*Stability Maximum values ±50ppm

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