

ISSUE 2; June 2019

Description

- 5 x 3.2mm SMD crystal with 2 pads in a hermetically sealed ceramic package with a metal lid.

Frequency Parameters

- Frequency: 8.0MHz to 125.0MHz
- Frequency Tolerance: $\pm 10.00\text{ppm}$ to $\pm 50.00\text{ppm}$ @ 25°C
- Tolerance Condition: @ 25°C
- Frequency Stability: $\pm 10.00\text{ppm}$ to $\pm 50.00\text{ppm}$
- Ageing: $\pm 5\text{ppm}$ max per year @ 25°C

Electrical Parameters

- Load Capacitance (CL): 8.0pF to 75.0pF
- Shunt Capacitance (C0): 7pF max
- Drive Level: 50 μ W typ, 200 μ W max

Operating Temperature Ranges

- 10 to 60°C
- 20 to 70°C
- 40 to 85°C

Environmental Parameters

- Storage Temperature Range: -40 to 85°C
- Shock: 1/2 sine pulse with peak acceleration 2000G, pulse duration 0.3ms
- Vibration: Frequency 10-55Hz, amplitude 0.7 to 0.9mm pk-pk, sweep 1min, duration 2hrs in each of 3 mutually perpendicular planes

Ordering Information

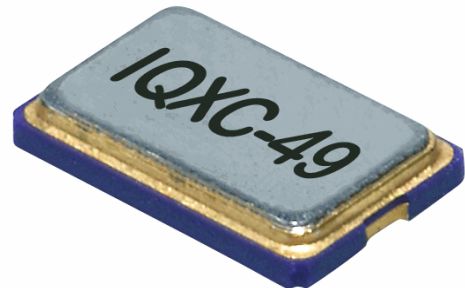
- Frequency*
- Model*
- Frequency Tolerance (@ 25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone
- Example
20.0MHz IQXC-49
30/50/-10 to 60C/20 FUND

Compliance

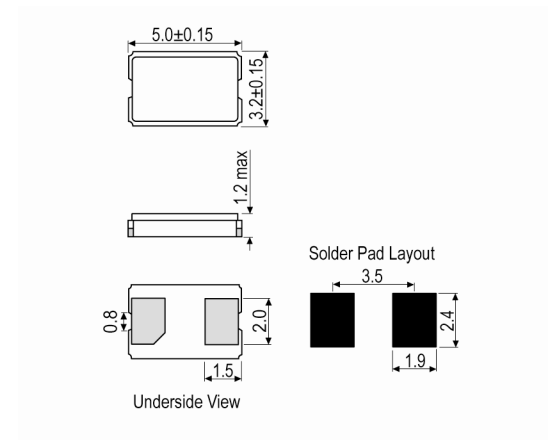
- RoHS Status (2015/863/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Cutt Cut tape
Pack Size: 100
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 1,000



Outline (mm)



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Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
		°C	ppm		Ω
8.0MHz	14.0MHz	-10 to 60	±10	Fundamental	150
		-20 to 70	±10		150
		-40 to 85	±20		150
14.000001MHz	20.0MHz	-10 to 60	±10	Fundamental	120
		-20 to 70	±10		120
		-40 to 85	±20		120
20.000001MHz	26.0MHz	-10 to 60	±10	Fundamental	100
		-20 to 70	±10		100
		-40 to 85	±20		100
26.000001MHz	54.0MHz	-10 to 60	±10	Fundamental	60
		-20 to 70	±10		60
		-40 to 85	±20		60
40.0MHz	125.0MHz	-10 to 60	±10	3rd Overtone	120
		-20 to 70	±10		120
		-40 to 85	±20		120

*Stability Maximum values ±50ppm

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