

ISSUE 6; July 2024

Description

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

Frequency Parameters

- Frequency: 32.0MHz to 80.0MHz
- Frequency Tolerance: $\pm 7.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Tolerance Condition: @25°C
- Frequency Stability: $\pm 10.00\text{ppm}$ to $\pm 50.00\text{ppm}$

Electrical Parameters

- Load Capacitance (CL): 5.0pF to 12.0pF
- Shunt Capacitance (C0): 5pF max
- Drive Level: 100μW max

Operating Temperature Ranges

- 20 to 70°C
- 30 to 85°C
- 40 to 85°C
- 40 to 105°C
- 40 to 125°C

Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Vibration: (JIS C 60068-2-6) Frequency sweep method shall be applied as follows. Quartz crystal units shall be vibrated with the sweeping frequency from 10Hz to 55Hz and return to 10Hz in 1 minute, with 1.5mm amplitude. This vibration shall be applied for 2 hours in each of the 3 perpendicular axes.
- Shock: (JIS C 60068-2-27) Quartz crystal units shall be accelerated at 9810m/s^2 by 1ms pulse duration. This shock shall be applied 3 times in each of the 3 perpendicular axes.

Manufacturing Details

- RoHS Terminations: MoNiAu
- RoHS Reflow: 260°C $\pm 5^\circ\text{C}$ within 5s

Compliance

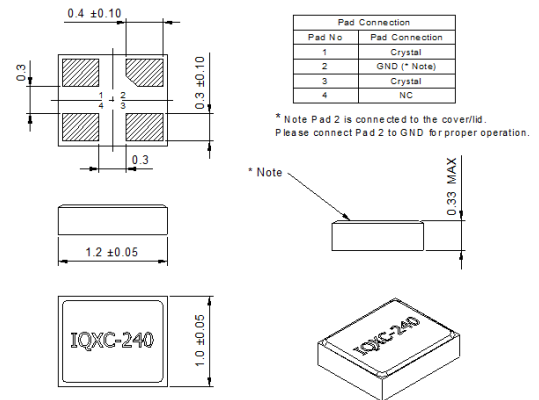
- RoHS Status (2015/863/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

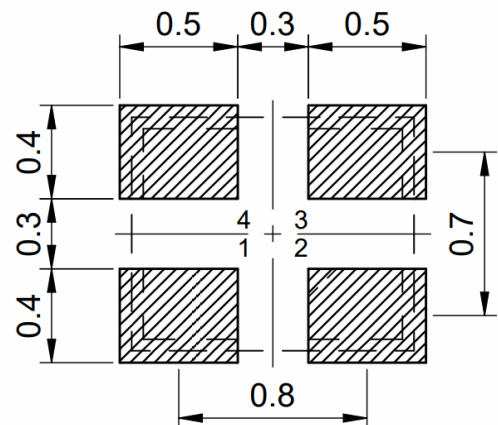
- Tape & reel in accordance with EIA-481
- Quantities below the standard reel size to be supplied on cut tape.
- Standard Pack Quantity: 5,000



Outline (mm)



Recommended 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	±10	Fundamental	100
		-30 to 85	±15		100
		-40 to 85	±15		100
		-40 to 105	±30		100
		-40 to 125	±50		100
33.000001MHz	37.0MHz	-20 to 70	±10	Fundamental	80
		-30 to 85	±15		80
		-40 to 85	±15		80
		-40 to 105	±30		80
		-40 to 125	±50		80
37.000001MHz	80.0MHz	-20 to 70	±10	Fundamental	60
		-30 to 85	±15		60
		-40 to 85	±50		60
		-40 to 105	±30		60
		-40 to 125	±50		60

*Stability Maximum values ±50ppm

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