

ISSUE 5; June 2024

Description

- Standard 1.6 x 1.2mm SMD crystal in a hermetically sealed ceramic package with a sealed metal lid

Frequency Parameters

- Frequency: 24.0MHz to 60.0MHz
- Frequency Tolerance: $\pm 10.00\text{ppm}$ to $\pm 50.00\text{ppm}$
- Tolerance Condition: @ 25°C
- Frequency Stability: $\pm 15.00\text{ppm}$ to $\pm 50.00\text{ppm}$
- Ageing: $\pm 3\text{ppm}$ max per year @ 25°C

Electrical Parameters

- Load Capacitance (CL): 8.0pF to 30.0pF
- Shunt Capacitance (C0): 3pF max
- Drive Level: 100μW max
- Note: ESR values for reference only - the final specification shall be confirmed for each frequency after sample production

Operating Temperature Ranges

- 20 to 70°C
- 40 to 85°C

Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Shock Test (MIL-STD-202 Method 213): Half Sine shock pulse with peak acceleration 500g. Pulse duration: 0.3ms.
- Vibration (MIL-STD-202 Method 204): Frequency: 10 - 55 Hz. Amplitude: 0.7 - 0.9 mm pk-pk. Sweep: 1 minute. Duration: 2 hours in each of 3 mutually perpendicular direction.

Ordering Information

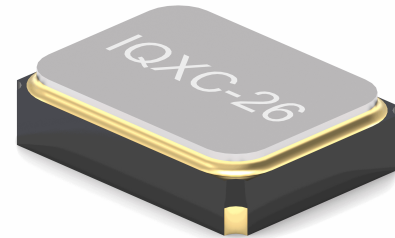
- Frequency*
- Model*
- Frequency Tolerance (@ 25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone
- (*minimum required)
- Example
- 32.0MHz IQXC-26
- 30/30/-40 to 85C/16 FUND

Compliance

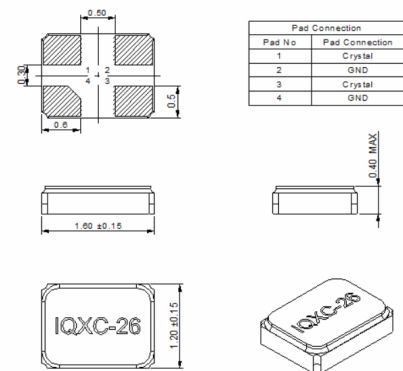
- RoHS Status (2015/863/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Tape & reel in accordance with EIA-481
- Quantities below the standard reel size to be supplied on cut tape.
- Standard Pack Quantity: 3,000

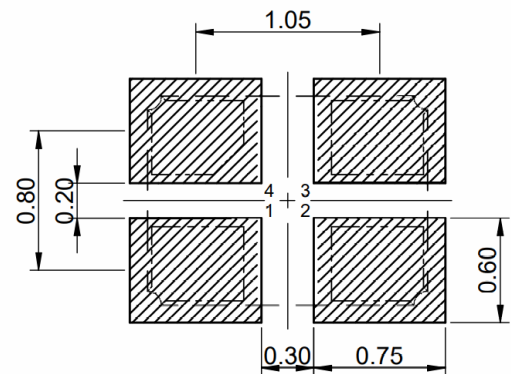


Outline (mm)



NOTE: The pad style on the base of the device may differ slightly from the drawing. The chamfer may appear on Pad 1 or 4. This causes no change to the electrical performance of the device.

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
24.0MHz	39.999999MHz	-20 to 70	±15	Fundamental	150
		-40 to 85	±50		150
40.0MHz	60.0MHz	-20 to 70	±15	Fundamental	100
		-40 to 85	±50		100

*Stability Maximum values ±50ppm

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