



## Description

- Temperature compensated crystal oscillator in a ceramic package with a metal lid, not hermetically sealed
- Model IQXT-170
- Model Issue number 1

## Frequency Parameters

- Frequency 26.0MHz
- Frequency Tolerance @ 25°C INCLUSIVE
- Frequency Stability  $\pm 1.00\text{ppm}$
- Operating Temperature Range -30.00 to 85.00°C
- Ageing  $\pm 1\text{ppm}$  max per year
- Supply Voltage Variation (@  $\pm 5\%$ ):  $\pm 0.2\text{ppm}$  max
- Load Variation (@  $\pm 10\%$ ):  $\pm 0.1\text{ppm}$  max

## Electrical Parameters

- Supply Voltage 3.0V
- Supply Voltage Tolerance  $\pm 5\%$
- Current Draw 2.00mA max

## Output Details

- Output Compatibility Clipped Sine
- Output Load 10k $\Omega$ /10pF

## Output Levels

- 0.8V pk-pk min

## Noise Parameters

- Harmonics: -5dBc max

## Environmental Parameters

- Vibration: 1.5mm amplitude, 10Hz-55Hz-10Hz, 1min in 3 mutually perpendicular planes, duration 2hrs each plane (total 6hrs)
- Storage Temperature Range: -40 to 85°C
- Drop: A test piece (100g) made of teflon is dropped 3 cycles (1 cycle: 6 directions) from a height of 150cm onto a hard board

## Compliance

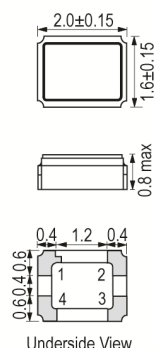
- RoHS Status Compliant
- REACH Status Compliant

## Packaging

- Pack Type: Bulk Loose in bulk pack
- Pack Size 100
- Alternative packing option available

*This document is correct at the time of printing; please contact your local office for the latest version.*

## Outline (mm)

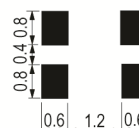


### Pad Connections

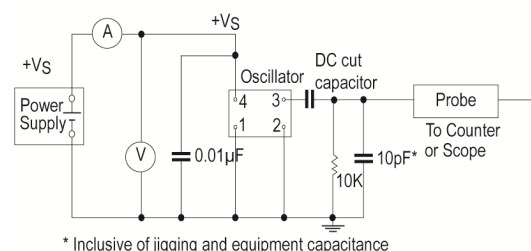
- GND
- GND
- Output
- +Vs

Notes: a 0.01 $\mu\text{F}$  capacitor between Vs & GND is recommended.  
Connect a DC-cut capacitor  $\geq 1\text{nF}$  to the line-out terminal of the oscillator

### Solder Pad Layout



## Test Circuit



\* Inclusive of jigging and equipment capacitance

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