

### Customer Part:

#### Description

- 2 x 1.6mm SMD crystal  
Ceramic package with a seam sealed metal lid, hermetically sealed
- Model IQXC-42
- Model Issue number 2

#### Frequency Parameters

- Frequency 20.0MHz
- Frequency Tolerance  $\pm 15.00\text{ppm}$
- Frequency Stability  $\pm 20.00\text{ppm}$
- Operating Temperature Range  $-40.00$  to  $85.00^\circ\text{C}$
- Overtone Order Fundamental
- Ageing  $\pm 3\text{ppm}$  per year

#### Electrical Parameters

- Load Capacitance (CL) 10.00pF
- Shunt Capacitance (C0) 3pF max
- Drive Level 100 $\mu$ W max
- ESR 120.00 $\Omega$  max

#### Environmental Parameters

- Storage Temperature Range:  $-55$  to  $125^\circ\text{C}$
- 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.
- Shock Test (MIL-STD-202 Method 213. Condition C): Half-sine shock pulse peak acceleration of 100g ; pulse duration of 6ms.

#### Compliance

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

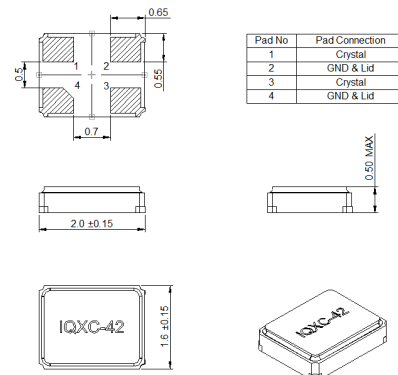
#### Packaging Details

- Tape & reel in accordance with EIA-481  
Quantities below the standard reel size to be supplied on cut tape.

Standard Pack Quantity: 3,000

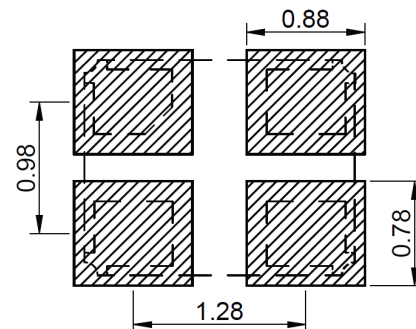


#### Outline (mm)



Note: The pad style on the base of the device may differ slightly from the drawing.  
The chamfer may appear on pad 2 or 4.  
This causes no change to the electrical performance of the device

#### Recommended solder pad layout



#### Sales Office Contact Details:

UK: +44 (0)1460 270200

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)

Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)