

## Customer Part:

### Description

- Metal can package mounted on an SMD base. Resistance welded, hermetically sealed in an inert atmosphere, glass to metal seals on leads.
- Model 87SMX
- Model Issue number 10

### Frequency Parameters

- Frequency 16.0MHz
- Frequency Tolerance  $\pm 50.00\text{ppm}$
- Tolerance Condition @ 25°C  $\pm 2^\circ\text{C}$
- Frequency Stability  $\pm 100.00\text{ppm}$
- Operating Temperature Range -20.00 to 70.00°C
- Overtone Order Fundamental
- Ageing  $\pm 5\text{ppm typ per year @ } 25^\circ\text{C}$

### Electrical Parameters

- Load Capacitance (CL) Series Resonant
- Shunt Capacitance (C0) 7pF max
- Drive Level 50µW typ, 300µW max
- ESR 30.00Ω max

### Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Shock: 981m/s<sup>2</sup>, 6ms, 3 times in each of 3 mutually perpendicular planes
- Vibration: 10Hz-60Hz, 0.75mm amplitude, 60Hz-500Hz, 98.1m/s<sup>2</sup>, 30mins in 3 mutually perpendicular planes

### Manufacturing Details

- Please note that this part is NOT suitable for inverted reflow process. Please contact our application support team if this is necessary.
- Pins 2 and 3 are connected to each other and isolated from the crystal case.
- RoHS Terminations SnAgCu
- RoHS Reflow Temp 260degC 10s

### Compliance

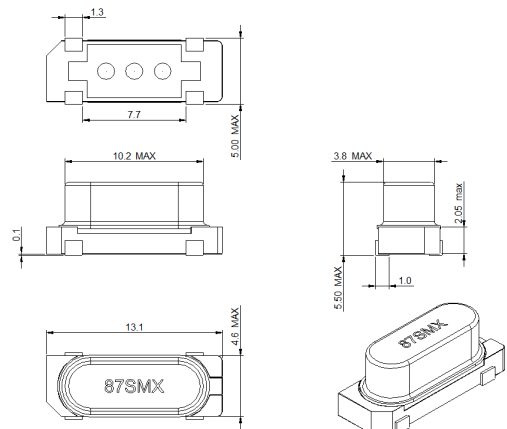
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### Packaging Details

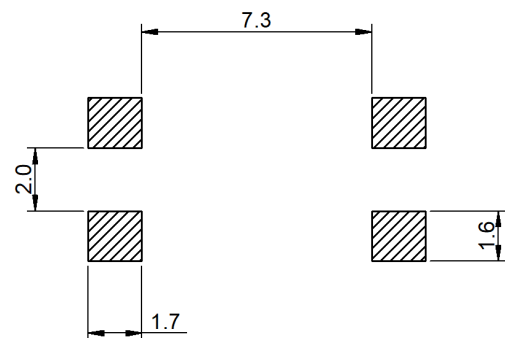
- Pack Style: Cutt In tape, cut from a reel  
Standard Pack Quantity: 100
- *Alternative packing option available*



### Outline (mm)



### 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)