

#### Description

- Industry standard SMD package with 5.5mm lead spacing  
Suitable for real time clock applications  
Plastic encapsulated
- Model 85SMX
- Model Issue number 9

#### Frequency Parameters

- Frequency 32.768kHz
- Frequency Tolerance  $\pm 20.00\text{ppm}$
- Overtone Order Fundamental
- Ageing  $\pm 5\text{ppm}$  max per year @ 25°C

#### Electrical Parameters

- Load Capacitance (CL) 12.50pF
- Shunt Capacitance (C0) 1pF typ
- Drive Level 1.0μW max
- ESR 50.00kΩ max

#### Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Drop: 75cm drop (3 times) onto hard wooden board
- Vibration: 1.5mm amplitude, 10Hz-60Hz, 2-3mins in 3 mutually perpendicular planes, duration 2hrs each plane

#### Manufacturing Details

- Not suitable for use with ultrasonic cleaning techniques
- RoHS Terminations Matte Sn
- RoHS Reflow Temp 260degC 10s

#### Compliance

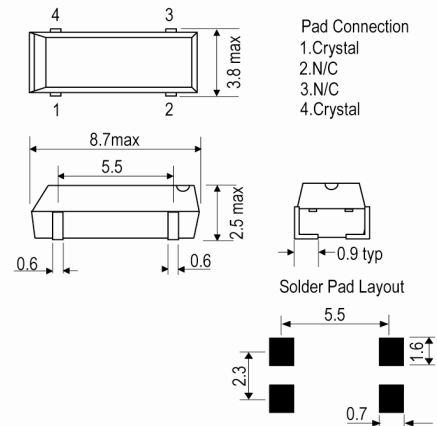
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

#### Packaging Details

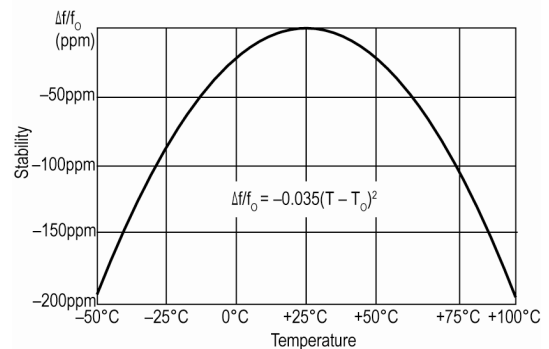
- Pack Style: Reel Tape & reel in accordance with EIA-481-D  
Pack Size: 3,000
- *Alternative packing option available*



#### Outline (mm)



#### Typical Frequency Stability Characteristics



#### Sales Office Contact Details:

UK: +44 (0)1460 270200  
Germany: 0800 1808 443

France: 0800 901 383  
USA: +1.760.318.2824

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)  
Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)