



ISSUE 11; February 2012 - RoHS 2011/65/EU

### Description

- Industry standard package
- Suitable for real time clock applications
- Plastic encapsulated

### Frequency Range

- Frequency 32.768kHz
- Frequency Tolerance  $\pm 20$ ppm

### General Specification

- Load Capacitance (CL) 12.5pF Standard
- Drive Level 1.0 $\mu$ W max
- Ageing  $\pm 5$ ppm max per year @ 25°C
- Shunt Capacitance (C0) 1pF typ

### Operable Temperature Range

- 40 to 85°C

### Environmental Parameters

- Operable Temperature Range: -40 to 85°C
- 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

### Ordering Information (\*minimum required)

- Frequency\*
- Model\*
- Tolerance @25°C
- Load Capacitance\*

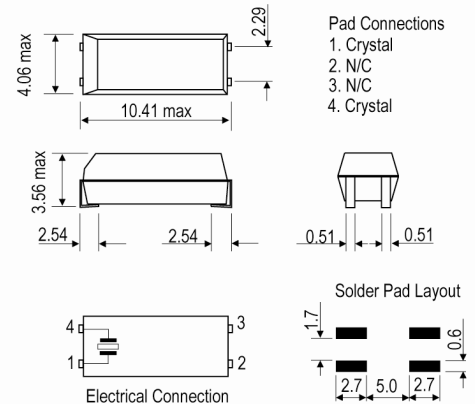
Example  
 32.768kHz 90SMX  
 20/-/12.5

### Packing Details

- Pack Style: **Bulk** Loose in bulk pack  
Pack Size 100
- Pack Style: **Reel** Tape and reel in accordance with EIA-481-D  
Pack Size 2,000
- Alternative packing options available



### Outline (mm)



### Sales Office Contact Details:

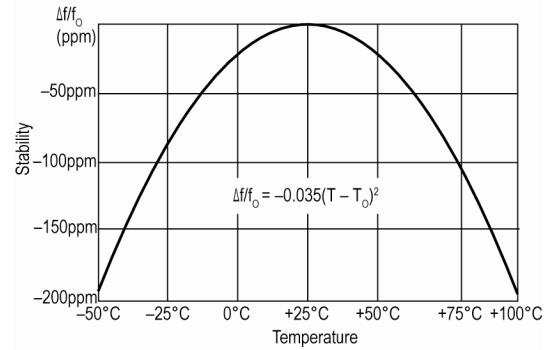
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**Typical Frequency Stability Characteristics**



**Electrical Specification - maximum limiting values**

Frequency Range	Frequency Tolerance	Typical Frequency Stability Coefficient	Temperature Range	ESR Max	Vibration Mode
32.768kHz	±20ppm	-0.035ppm/°C <sup>2</sup>	-40 to 85°C	50kΩ	Tuning Fork

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

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