



ISSUE 9; February 2012 - RoHS 2011/65/EU

Description

- Industry standard SMD package with 5.5mm lead spacing
Suitable for real time clock applications
Plastic encapsulated

Frequency Range

- Frequency 32.768kHz
- Frequency Tolerance ± 20 ppm

General Specification

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

Operable Temperature Range

- -40 to 85°C

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

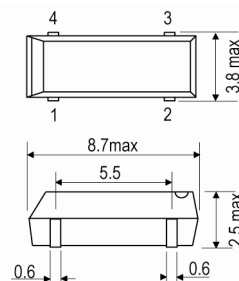
- Not suitable for use with ultrasonic cleaning techniques

Ordering Information (*minimum required)

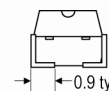
- Frequency*
Model*
Frequency Tolerance (@25°C)*
Load Capacitance*
- Example
32.768kHz 85SMX
20/-/12.5

Packing Details

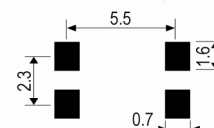
- Pack Style: **Bulk** Loose in bulk pack
Pack Size 100
- Pack Style: **Reel** Tape and reel in accordance with EIA-481-D
Pack Size 3,000
- Alternative packing options available

**Outline (mm)**

Pad Connection
1.Crystal
2.N/C
3.N/C
4.Crystal



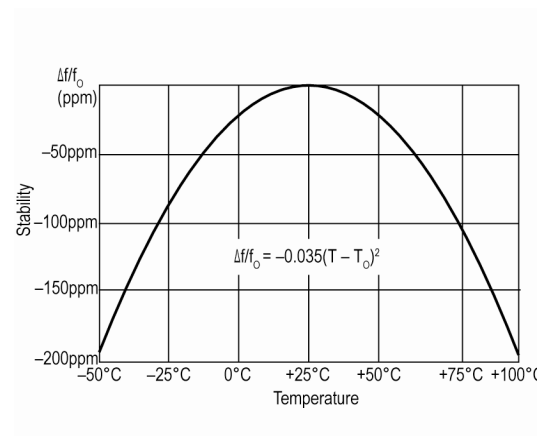
Solder Pad Layout

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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/°C²	-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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