



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 ±20ppm

General Specification

- Load Capacitance (CL) 12.5pF Standard
- Drive Level 1.0µW max
- Ageing ±5ppm 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 ultrasonce cleaning techniques

Ordering Information (*minimum required)

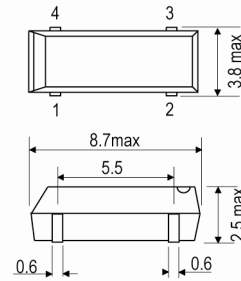
- Frequency*
- Model*
- Frequency Tolerance (@25°C)*
- Load Capacitance*
- Example
32.768kHz 85SMX
20I-I/12.5

Packing Details

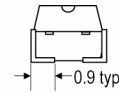
- Pack Style: **Bulk** Loose in bulk pack
Pack Size 100
- Pack Style: **Reel** Tape and reel in accordance with EIA-481-D
Pack Size 3,000
- Alternative packing options available



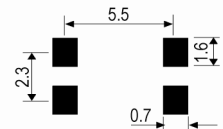
Outline (mm)



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



Solder Pad Layout



Sales Office Contact Details:

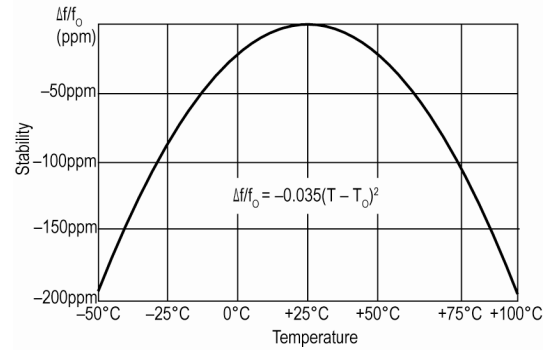
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Typical Frequency Stability Characteristics



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 ²	-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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