

ISSUE 10; February 2023

Description

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

Frequency Parameters

- Frequency 32.768kHz
- Frequency Tolerance $\pm 20.00\text{ppm}$
- Ageing $\pm 5\text{ppm max per year @ } 25^\circ\text{C}$

Electrical Parameters

- Load Capacitance (CL) 6.0pF to 12.5pF
- Shunt Capacitance (C0) 1pF typ
- Drive Level 1.0 $\mu\text{W max}$

Operating Temperature Ranges

- 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
- RoHS Terminations Matte Sn
- RoHS Reflow 260degC 10s

Ordering Information

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

Compliance

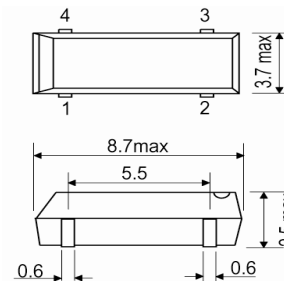
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

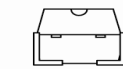
- Tape & reel in accordance with EIA-481
Quantities below the standard reel size to be supplied on cut tape.
Standard Quantity: 3,000 Pieces



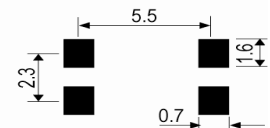
Outline (mm)



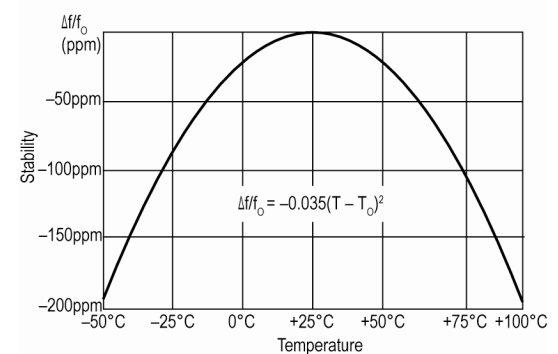
- Pad Connection
- Crystal
 - N/C
 - N/C
 - Crystal



Solder Pad Layout



Typical Frequency Stability Characteristics



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Electrical Specification - maximum limiting values

Frequency	Temperature Range	Stability	Over Tone Order	ESR
	°C	ppm		Ω
32.768000kHz	-40 to 85	-	Fundamental	50,000

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