

ISSUE 11; November 2024

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, 2.5pF max
- 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: Ag, Sn
- RoHS Reflow: 260°C max over 10 seconds

Ordering Information

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

Compliance

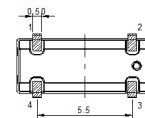
- RoHS Status (2015/863/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

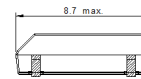
- Tape & reel in accordance with EIA-481
- Quantities below the standard reel size to be supplied on cut tape.
- Standard Pack Quantity: 3,000



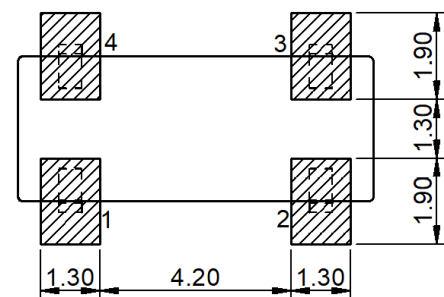
Outline (mm)



Pad No	Pad Connection
1	Crystal
2	GND
3	GND
4	Crystal



Recommended Solder Pad Layout



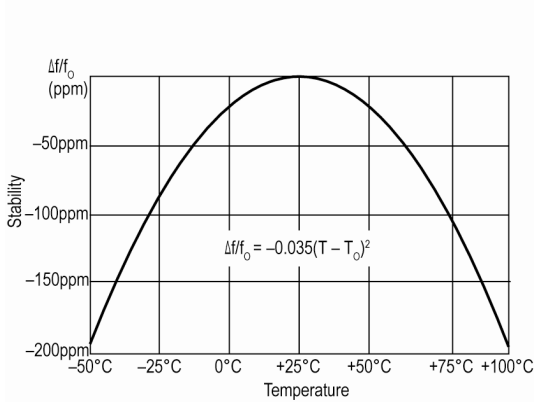
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Typical Frequency Stability Characteristics



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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