



## FEATURES

- Extremely Small Size
- Low Cost
- 1.4mm Height Max
- Tape and Reel (3,000 pcs. STD)

# DISCONTINUED

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## • PART NUMBER [Learn More](#) - Internet Required

Part Number	Model Number	Frequency Stability	Operating Temperature	Frequency
501-Frequency-xxxxx	FSX	-0.04PPM/( $\Delta$ °C) <sup>2</sup>	-40 ~ +85 °C	32.768 kHz

Learn more about:

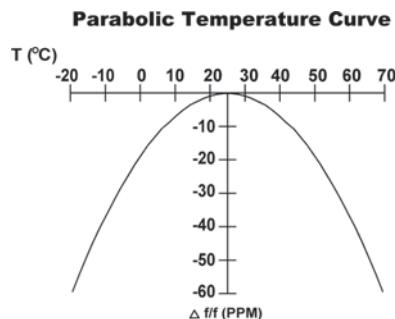
[Part Marking Identification](#)  
[Tape and Reel Specification](#)

Internet required

## • STANDARD SPECIFICATIONS

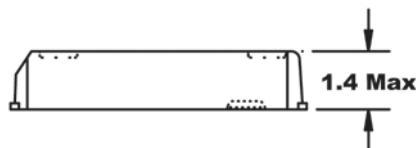
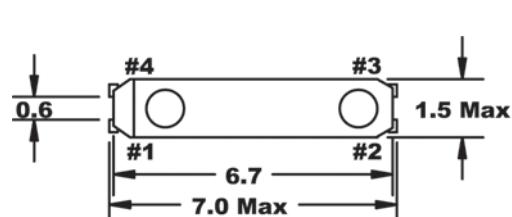
PARAMETERS	MAX (unless otherwise noted)
Frequency Range	32.768 kHz
Frequency Tolerance @ 25°C	±20 PPM
Frequency Stability, ref @ 25°C	-0.04PPM/( $\Delta$ °C) <sup>2</sup>
Temperature Range	
Turnover (TO)	+20°C ~ +30°C
Operating (TOPR)	-40°C ~ +85°C
Storage (TSTG)	-55°C ~ +125°C
Equivalent Series Resistance	65 kΩ
Load Capacitance (CL)	7 pF, 12.5pF Typ
Insulation Resistance @ 100VDC	500 MΩ Min
Drive Level	1.0 µW
Aging	±3 PPM

All specifications subject to change without notice. Rev. 7/12/04

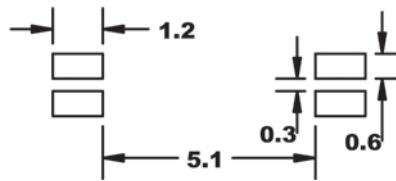


To determine frequency stability, use parabolic curvature (K).  
 For example: What is stability at 45°C?

- 1) Change in T (°C) = 45-25 = 20°C
- 2) Change in frequency =  $-0.04 \text{ PPM} \times (20)^2$   
 $= -0.04 \text{ PPM} \times (20)^2$   
 $= -16.0 \text{ PPM}$



## Recommended Solder Pad Layout



All dimensions are in millimeters.

# Mouser Electronics

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