SMD TUNING FORK
MODEL: FSN

FEATURES

- Ultra Low Profile
- 1.0mm Height
- Long Term Stability
- Tape and Reel (3,000 pcs. STD)
- ± 10 PPM Available

DISCONTINUED

Learn more about:
Part Marking Identification
Tape and Reel Specification
Internet required

Quote it!

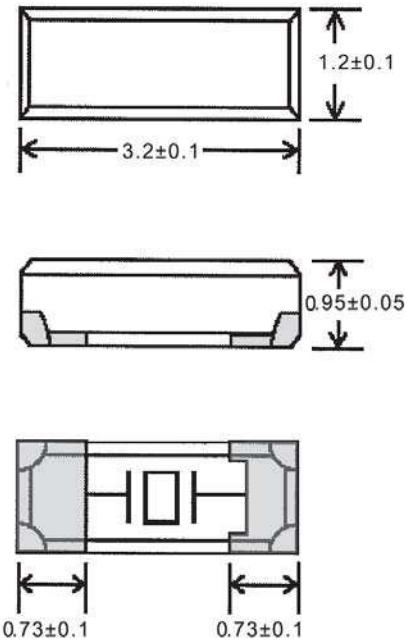
• PART NUMBER Learn More - Internet Required

Part Number	Model Number	Frequency Stability	Operating Temperature	Frequency
593-Frequency-xxxxx	**FSN**	-0.045PPM/(ΔºC)²	-40 ~ +85 ºC	32.768 kHz

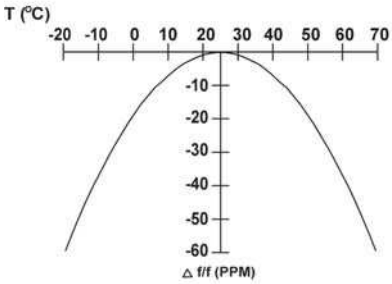
• STANDARD SPECIFICATIONS

PARAMETERS	MAX (unless otherwise noted)
Frequency	32.768 kHz
Frequency Tolerance @ 25ºC	±20 PPM
Frequency Stability Temperature Coefficient	-0.045 PPM / (ΔºC)²
Temperature Range Turnover (TO) Operating (TOPR) Storage (TSTG)	 +20ºC ~ +30ºC -40ºC ~ +85ºC -55ºC ~ +125ºC
Equivalent Series Resistance (RS)	65 kΩ
Load Capacitance (CL)	12.5 pF (Standard) 7 pF (Optional)
Insulation Resistance @ 100VDC	500 MΩ Min
Drive Level	1.0 µW
Aging per year	±5 PPM

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



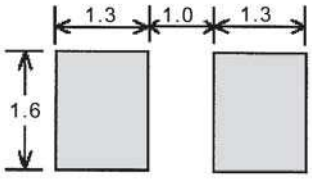
Parabolic Temperature Curve



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

1) Change in T (ºC) = 45-25 = 20ºC
2) Change in frequency = -0.04 PPM * (Δ C)²
= -0.04 PPM * (20)²
= -16.0 PPM

Recommended Solder Pad Layout



All dimensions are in millimeters.