Thru-Hole Tuning Fork

Model: NC15LF/NC26LF/NC38LF **RoHS Compliant / pB Free** **Rev. 7/23/2010**

http://www.foxonline.com/need_a_sample.htm

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FEATURES

- Miniature Packages
- Low Cost
- Cold Weld Design
- Long Term Stability
- Tight Tolerance

• PART NUMBER SELECTION

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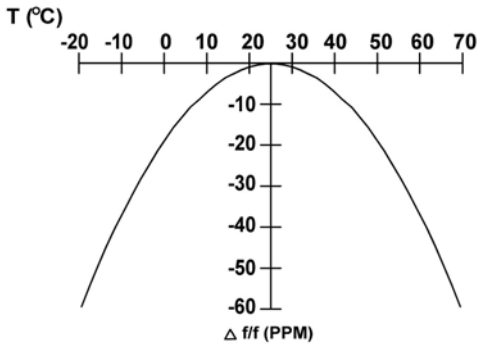
Part Number	Model Number	Frequency Stability	Operating Temperature	Frequency
298LF-Frequency-xxxxx	NC15LF	-0.04 PPM / (Δ°C)²	-20 °C~ +60 °C	32.768 kHz
299LF-Frequency-xxxxx	NC26LF	-0.04 PPM / (Δ°C)²	-20 °C~ +60 °C	32.768 kHz
300LF-Frequency-xxxxx	NC38LF	-0.04 PPM / (Δ°C)²	-20 °C~ +60 °C	32.768 kHz

• STANDARD SPECIFICATIONS

PARAMETERS	MAX (unless otherwise noted)
Frequency	32.768 kHz
Frequency Tolerance @ 25ºC	± 20 PPM
Frequency Stability Temperature Coefficient	-0.04 PPM / (Δ°C)²
Temperature Range	
Turnover (TO)	+20ºC ~ +30ºC
Operating (TOPR)	-20ºC ~ +60ºC
Storage (TSTG)	-30ºC ~ +70ºC
Equivalent Series Resistance (RS)	
NC15 / NC26	50 kΩ
NC38	35 kΩ
Load Capacitance (CL)	12.5 pF (Standard) 6 pF (Optional)
Insulation Resistance @ 100VDC	500 MΩ Min
Drive Level	1.0 µW
Aging per year	±3 PPM

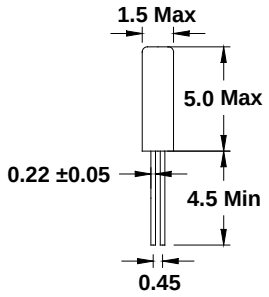
All specifications subject to change without notice.
Note: Can should not be soldered to the circuit board or grounded. If securing the can to the board is desired, a rubber adhesive is recommended.

Parabolic Temperature Curve

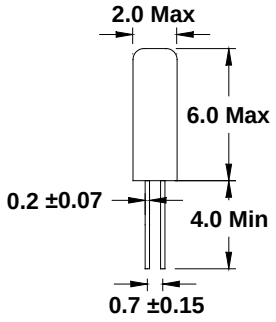


To determine frequency stability, use parabolic curvature (K).
For example: What is stability at 45°C?

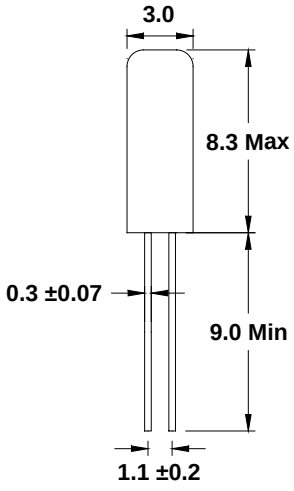
1) Change in T (°C) = 45-25 = 20°C
2) Change in frequency = -0.04 PPM * (Δ C)²
= -0.04 PPM * (20)²
= -16.0 PPM



NC26LF



NC38LF



All dimensions are in millimeters.