

Thru-Hole Tuning Fork

Model: NC15LF/NC26LF/NC38LF

RoHS Compliant / pB Free

Rev. 7/23/2010

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

FEATURES

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

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

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

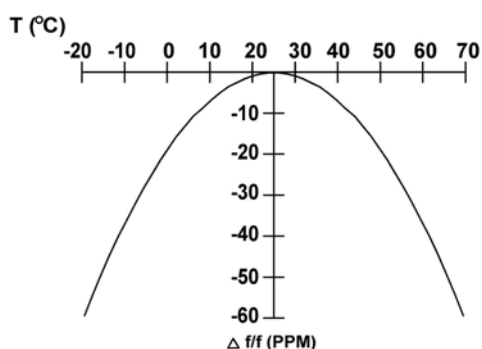
• STANDARD SPECIFICATIONS

PARAMETERS	MAX (unless otherwise noted)
Frequency	32.768 kHz
Frequency Tolerance @ 25°C	± 20 PPM
Frequency Stability Temperature Coefficient	-0.04 PPM / (Δ°C) ²
Temperature Range	
Turnover (T _O)	+20°C ~ +30°C
Operating (T _{OPR})	-20°C ~ +60°C
Storage (T _{STG})	-30°C ~ +70°C
Equivalent Series Resistance (R _S)	
NC15 / NC26	50 kΩ
NC38	35 kΩ
Load Capacitance (C _L)	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

