

SMD Tubular Tuning Fork Crystal



Model: NC26SMLF

RoHS Compliant

Rev. 8/11/2010

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FEATURES

- Ultra Low Profile
- Long Term Stability
- Tape and Reel (3,000 pcs. STD)

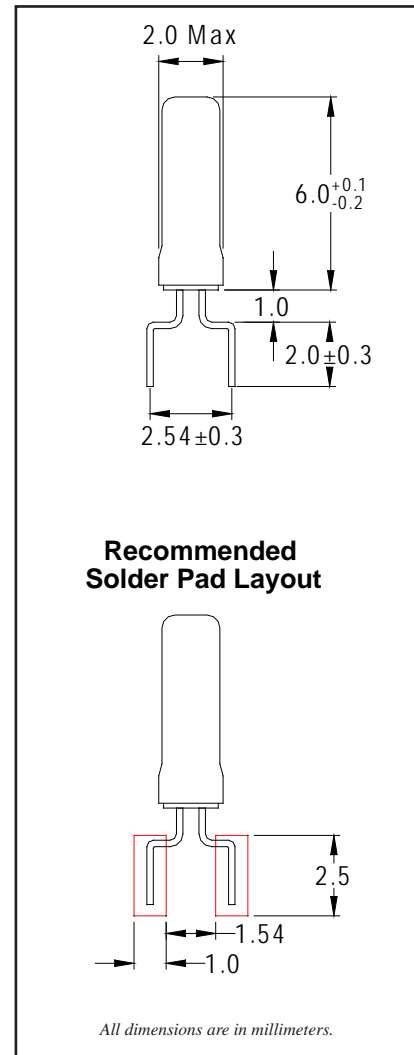
• PART NUMBER [Learn More](#) - Internet Required

| Part Number | Model Number | Frequency Stability | Operating Temperature |
|----------------------|--------------|--|------------------------------|
| 509LF-0.032768-xxxxx | NC26SMLF | -0.04PPM/($\Delta^{\circ}\text{C}$) ² | -40 ~ +85 $^{\circ}\text{C}$ |

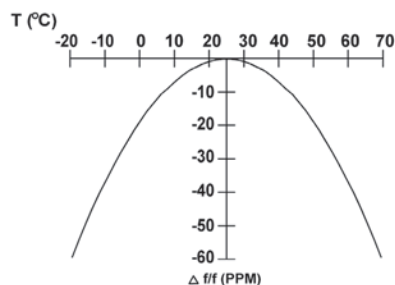
• STANDARD SPECIFICATIONS

| PARAMETERS | MAX (unless otherwise noted) |
|---|---|
| Frequency | 32.768 kHz |
| Frequency Tolerance @ 25 $^{\circ}\text{C}$ | ± 20 PPM |
| Frequency Stability Temperature Coefficient | -0.04 PPM / ($\Delta^{\circ}\text{C}$) ² |
| Temperature Range | |
| Turnover (To) | +20 $^{\circ}\text{C}$ ~ +30 $^{\circ}\text{C}$ |
| Operating (TOPR) | -40 $^{\circ}\text{C}$ ~ +85 $^{\circ}\text{C}$ |
| Storage (TSTG) | -55 $^{\circ}\text{C}$ ~ +125 $^{\circ}\text{C}$ |
| Equivalent Series Resistance (RS) | 50 k Ω |
| Load Capacitance (CL) | 12.5 pF |
| Insulation Resistance @ 110VDC | 500 M Ω Min |
| Drive Level | 1.0 μW |
| Aging per year | ± 3 PPM |
| Maximum Soldering Temp/Time | 260 $^{\circ}\text{C}$ x 10 Seconds |
| Moisture Sensitivity Level (MSL) | 1 |
| Termination Finish | Sn / Cu |

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.



To determine frequency stability, use parabolic curvature (K).
For example: What is stability at 45 $^{\circ}\text{C}$?

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

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• TAPE SPECIFICATIONS (millimeters)

| MODEL | A | B | C | D | E | F | STD Reel QTY |
|----------|------|-----|-----|-----|------|------|--------------|
| NC26SMLF | ∅1.5 | 4.0 | 8.0 | 7.5 | 16.0 | 2.15 | 3,000 |

• REEL SPECIFICATIONS (millimeters)

| MODEL | G | H | I | J | K | L | M |
|----------|-----|-----|-----|------|------|------|-----|
| NC26SMLF | 2.0 | ∅13 | ∅21 | ∅100 | ∅330 | 17.5 | 2.0 |

