

SMD 3.2x1.5mm Tuning Fork



Model: FX135

RoHS Compliant / Pb Free

Rev. 2/2/2006 Preliminary

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



FEATURES

- Ultra Low Profile
- 0.9mm Height
- Long Term Stability
- Tape and Reel (3,000 pcs. STD)

Learn more about:
[Part Marking Identification](#)
[Tape and Reel Specification](#)
 Internet required

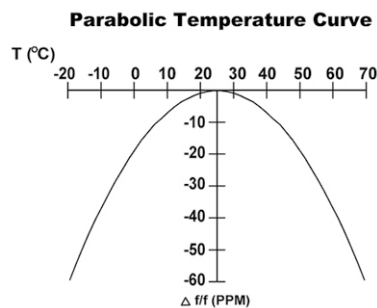
• PART NUMBER [Learn More](#) - Internet Required

Part Number	Model Number	Frequency Stability	Operating Temperature	Frequency
775-Frequency-xxxxx	FX135	-0.045PPM/($\Delta^{\circ}\text{C}$) ²	-40 $^{\circ}\text{C}$ ~ +85 $^{\circ}\text{C}$	32.768 kHz

• STANDARD SPECIFICATIONS

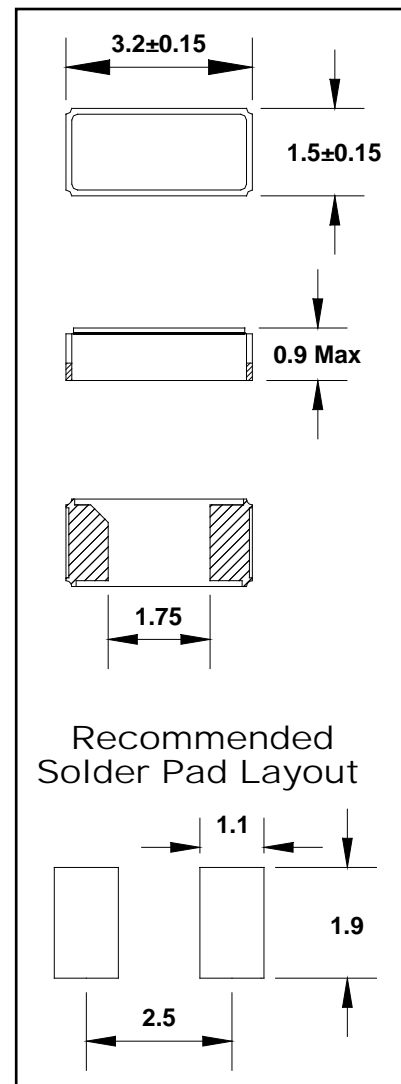
PARAMETERS	MAX (unless otherwise noted)
Frequency	32.768 kHz
Frequency Tolerance @ 25 $^{\circ}\text{C}$	± 20 PPM
Frequency Stability Temperature Coefficient	-0.045 PPM / ($\Delta^{\circ}\text{C}$) ²
Temperature Range	
Turnover (TO)	+20 $^{\circ}\text{C}$ ~ +30 $^{\circ}\text{C}$
Operating (TOPR)	-40 $^{\circ}\text{C}$ ~ +85 $^{\circ}\text{C}$
Storage (TSTG)	-55 $^{\circ}\text{C}$ ~ +125 $^{\circ}\text{C}$
Equivalent Series Resistance (RS)	70 k Ω
Load Capacitance (CL)	12.5 pF (Standard) (Fox P/N: FX135A-327) 9pF (Optional) (Fox P/N: FX135B-327)
Insulation Resistance @ 100VDC	500M Ω Min
Drive Level	1.0uW 0.1uW Typ
Aging per year	± 3 PPM
Maximum Soldering Temp / Time	260 $^{\circ}\text{C}$ / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Ni/Au

All specifications subject to change without notice.



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 * (ΔC)²
 = -0.04 PPM * (20)²
 = -16.0 PPM



All dimensions are in millimeters.