

SMD Tuning Fork



Model: FX145

RoHS Compliant / Pb Free

Rev. 5/17/2005

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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)

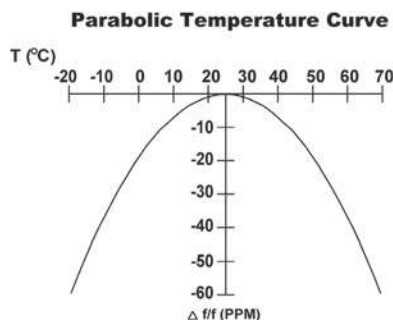
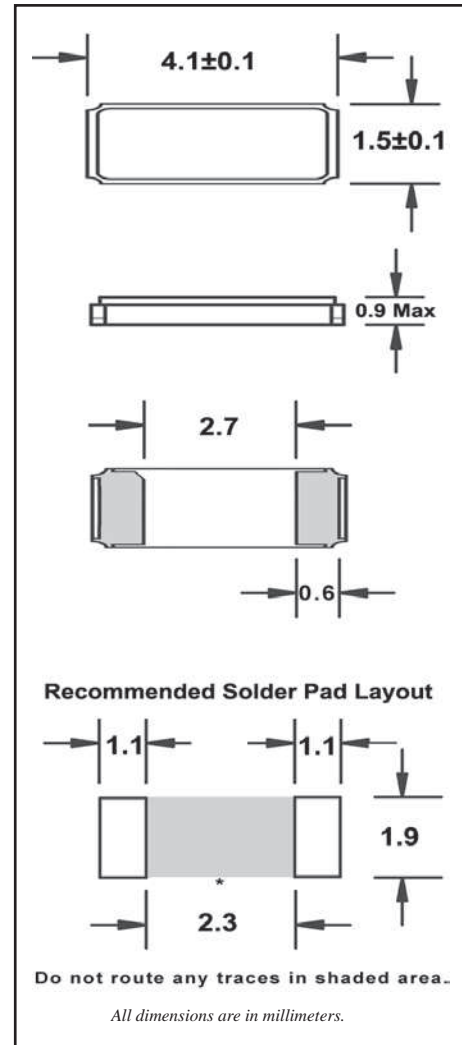
• PART NUMBER [Learn More](#) - Internet Required

Part Number	Model Number	Frequency Stability	Operating Temperature	Frequency
740-0.032768-xxxxx	FX145	-0.04PPM/($\Delta^{\circ}\text{C}$) ²	-40 ~ +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	-0.04 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)	70 k Ω
Load Capacitance (CL)	12.5 pF (Standard) Others available
Insulation Resistance @ 100VDC	500 M Ω Min
Drive Level	1.0 μW
Aging per year	± 5 PPM
Reflow Soldering Temperature	260 $^{\circ}\text{C}$ x 10 Seconds (2 Cycles)
Moisture Sensitivity Level (MSL)	1
Termination Finish	Ni/Au

All specifications subject to change without notice. Rev. 5/17/05



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