SMD Tuning Fork

Model: FX145 **RoHS Compliant / Pb Free** **Rev. 5/17/2005**

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

Need a Sample®

FEATURES

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

• PART NUMBER

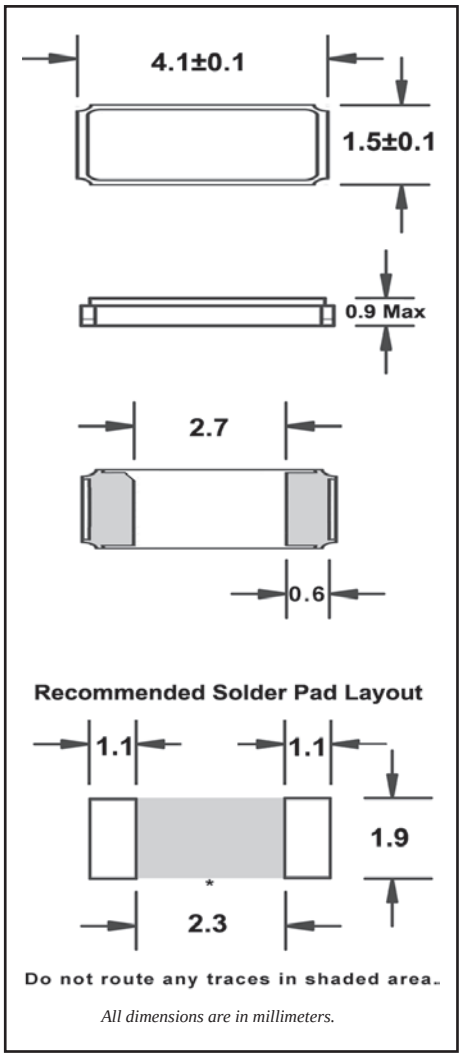
Learn More - Internet Required

Part Number	Model Number	Frequency Stability	Operating Temperature	Frequency
740-0.032768-xxxxx	**FX145**	-0.04PPM/(ΔºC)²	-40 ~ +85 ºC	32.768 kHz

• STANDARD SPECIFICATIONS

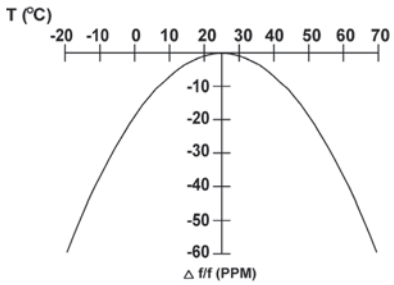
PARAMETERS	MAX (unless otherwise noted)
Frequency	32.768 kHz
Frequency Tolerance @ 25ºC	±20 PPM
Frequency Stability Temperature Coefficient	-0.04 PPM / (ΔºC)²
Temperature Range	
Turnover (To)	+20ºC ~ +30ºC
Operating (Topr)	-40ºC ~ +85ºC
Storage (Tstg)	-55ºC ~ +125ºC
Equivalent Series Resistance (Rs)	70 kΩ
Load Capacitance (CL)	12.5 pF (Standard) Others available
Insulation Resistance @ 100VDC	500 MΩ Min
Drive Level	1.0 µW
Aging per year	±5 PPM
Reflow Soldering Temperature	260ºC 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*



All dimensions are in millimeters.

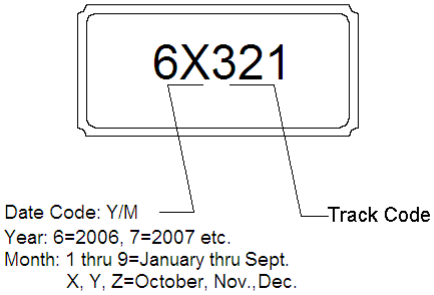
Parabolic Temperature Curve



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

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

Fox Crystal FX145 Marking Identification



© 2008 FOX ELECTRONICS ISO 9001:2000 Certified