

SMD 3.2x1.5mm Tuning Fork



Model: FX135

RoHS Compliant / Pb Free

Rev. 3/20/2015

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Need a
Sample®

FEATURES

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

OPTIONS

- 9pF Available (FX135B-327)

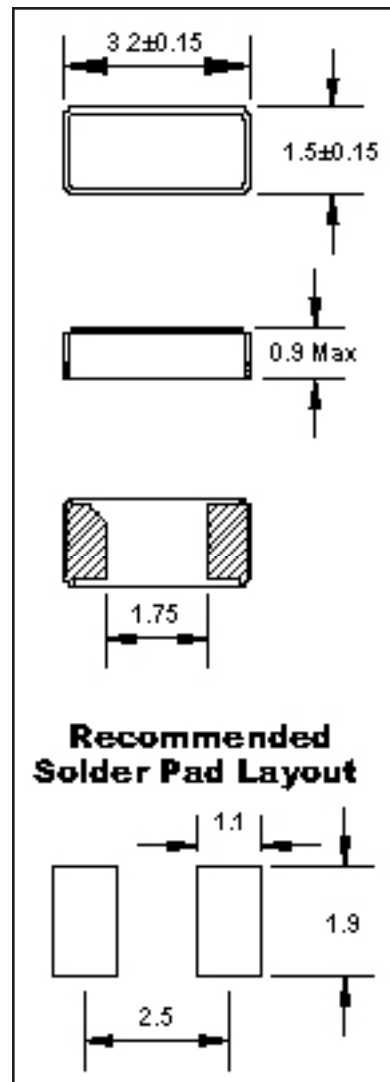
• PART NUMBER

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

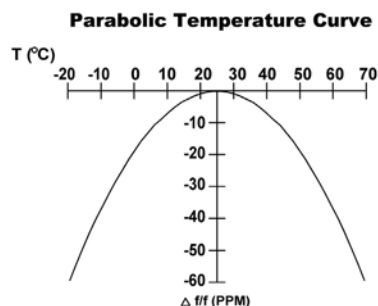
• STANDARD SPECIFICATIONS

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 (T _O)	+20 $^{\circ}\text{C}$ ~ +30 $^{\circ}\text{C}$
Operating (T _{OPR})	-40 $^{\circ}\text{C}$ ~ +85 $^{\circ}\text{C}$
Storage (T _{STG})	-55 $^{\circ}\text{C}$ ~ +125 $^{\circ}\text{C}$
Equivalent Series Resistance (R _S)	70 k Ω
Load Capacitance (C _L)	12.5 pF(Standard) (Fox P/N: FX135A-327) 9pF (Optional) (Fox P/N: FX135B-327)
Insulation Resistance @ 100VDC	500M Ω Min
Drive Level	1.0 μW 0.1 μW Typ
Aging per year	± 3 PPM
Maximum Soldering Temp / Time	260 $^{\circ}\text{C}$ / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au over Ni

All specifications subject to change without notice.



All dimensions are in millimeters.



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 = $-0.04 \text{ PPM} \cdot (\Delta \text{C})^2$
= $-0.04 \text{ PPM} \cdot (20)^2$
= -16.0 PPM

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• TAPE SPECIFICATIONS (millimeters)							
MODEL	A	B	C	D	E	F	STD Reel QTY
FX135	Ø1.5	4.0	4.0	5.5	12.0	1.0	3,000

• REEL SPECIFICATIONS (millimeters)							
MODEL	G	H	I	J	K	L	M
FX135	2.0	Ø13	Ø21	Ø60	Ø180	13.0	1.2

