



SMD Tuning Fork

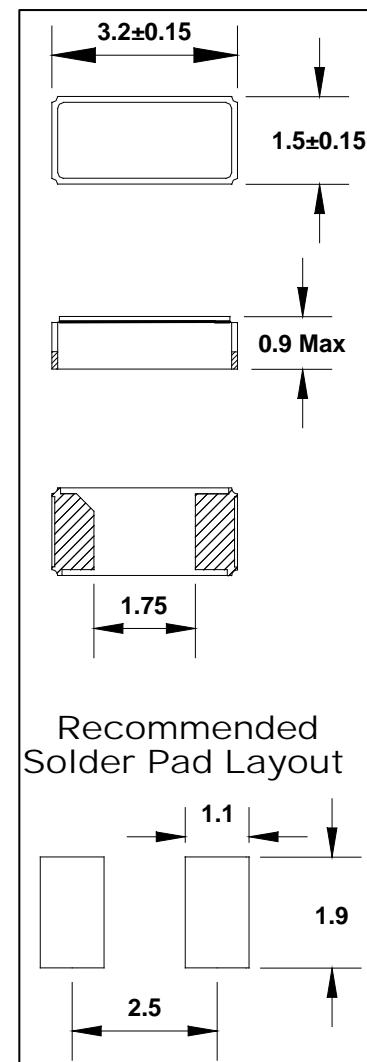
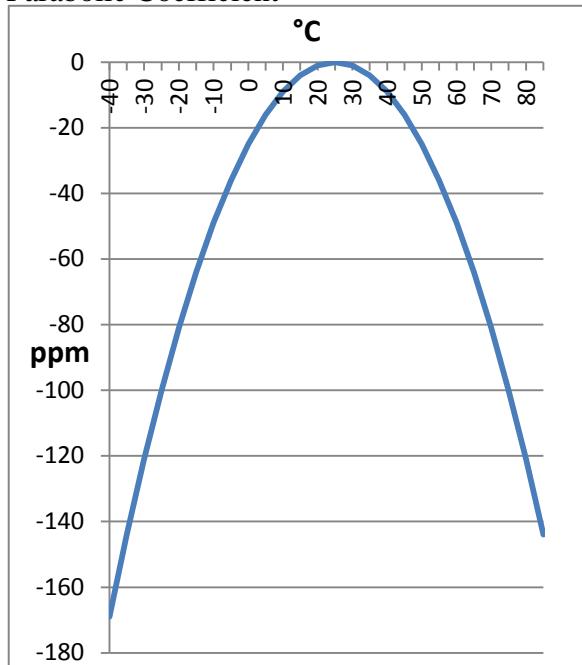
K135
(former FX135)
DATASHEET

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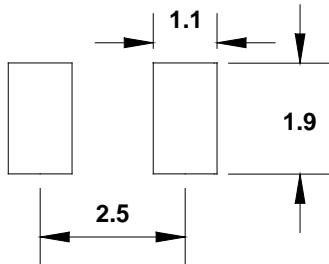
• K135 STANDARD SPECIFICATIONS

PARAMETERS	MAX (unless otherwise noted)
Frequency	32.768 kHz
Frequency Tolerance @ 25°C	(See options on page 2)
Frequency Stability Temperature Coefficient	-0.04 PPM / (Δ°C)
Temperature Range	
Turnover (T _o)	+20°C ~ +30°C
Operating (T _{opr})	-40°C ~ +85°C
Storage (T _{stg})	-55°C ~ +125°C
Equivalent Series Resistance (R _S)	70 kΩ
Load Capacitance (C _L)	(See options on page 2)
Insulation Resistance @ 100V _{DC}	500MΩ Min
Drive Level	1.0 μW 0.1 μW Typ
Aging per year	±3 PPM
Maximum Soldering Temp / Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au over Ni
Seal Method	Seam Seal
Lead (Pb) Free	Yes
RoHS/Reach Compliant	Yes

Parabolic Coefficient



Recommended
Solder Pad Layout



All dimensions are in millimeters.

Note: Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, etc. may vary.





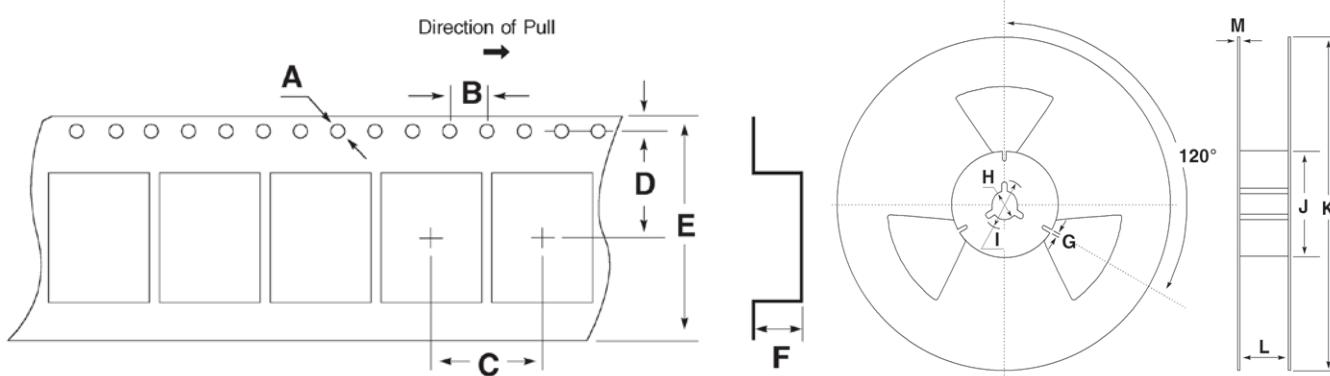
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• TAPE SPECIFICATIONS (millimeters)						
A	B	C	D	E	F	STD Reel QTY
Ø1.5	4.0	4.0	5.5	12.0	1.0	3,000

G	H	I	J	K	L	M
2.0	Ø13	Ø21	Ø60	Ø180	13.0	1.2



Available Options & Part Identification for SMD Tuning Fork Crystal K135 F K135 E I H M 0.032768

F	K135	E	I	H	M	0.032768
FOX	Model Number	Tolerance E = 20 PPM H = 10 PPM	Stability I = -0.04 PPM / (Δ°C)	Load Capacitance B=6pF V=7pF W=9pF H=12.5pF	Operating Temperature M = -40 ~ +85°C	Frequency (MHz)



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	Drawing Number: 100973	Size: A	
	Part Number:	Cage: 61429	
	Draftsperson: CMR	Approved: BEC	Revision Date: 04/28/2017