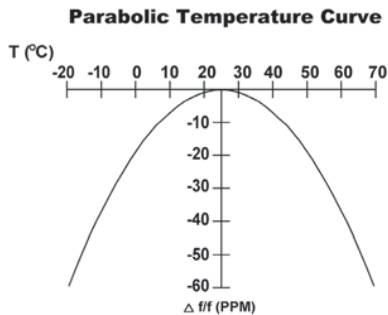
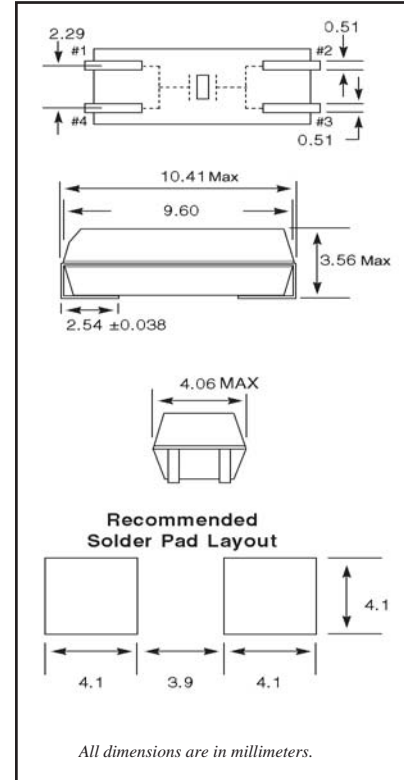




• KFSM STANDARD SPECIFICATIONS

PARAMETERS	MAX (unless otherwise noted)
Frequency	32.768 kHz
Frequency Tolerance @ 25°C	±20 PPM
Frequency Stability Temperature Coefficient	-0.04 PPM / (Δ°C) ²
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)	50 kΩ
Load Capacitance (C _L)	(See options on page 2)
Insulation Resistance @ 100VDC	500 MΩ Min
Drive Level	1.0 μW
Aging per year	±3 PPM
Termination Finish	100% Matte Sn
Lead (Pb) Free	Yes
RoHS Compliant	Yes



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

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

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.



Title / Description: KFSM SERIES STANDARD SPECIFICATIONS	
Drawing Number: 101145	Size: A
Part Number:	Case: 61429
Draftsperson: SM	Approved: CMR
Revision Date: 1/19/2017	

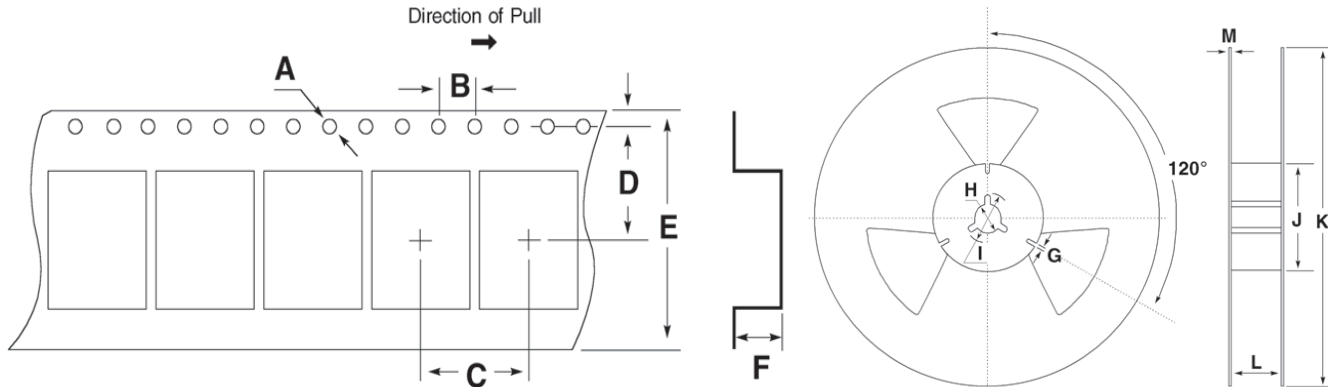


SMD Tuning Fork

KFSM
(former FSMLF)
DATASHEET

• TAPE SPECIFICATIONS (millimeters)							
MODEL	A	B	C	D	E	F	STD Reel QTY
KFSM	∅1.5	4.0	8.0	7.5	16.0	2.7	2,000

• REEL SPECIFICATIONS (millimeters)							
MODEL	G	H	I	J	K	L	M
KFSM	2.0	∅13	∅21	∅50/100	∅330	16.4	2.0



Available Options & Part Identification for SMD Tuning Fork Crystal KFSM F KFSM E I H M 0.32768

F	KFSM	E	I	H	M	0.32768
<u>FOX</u>	<u>Model Number</u>	<u>Tolerance</u> E = 20 PPM	<u>Stability</u> I = -0.04 PPM / (Δ°C) ²	<u>Load Capacitance</u> B = 6 pF H = 12.5 pF* (*standard)	<u>Operating Temperature</u> M = -40 ~ +85 °C	<u>Frequency (MHz)</u>



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	Drawing Number: 101145		Size: A
	Part Number:		Cage: 61429
	Draftsperson: SM	Approved: CMR	Revision Date: 1/19/2017