



8.7x3.8mm SMD Tuning Fork Crystal

KFSR

(former FSRLF)

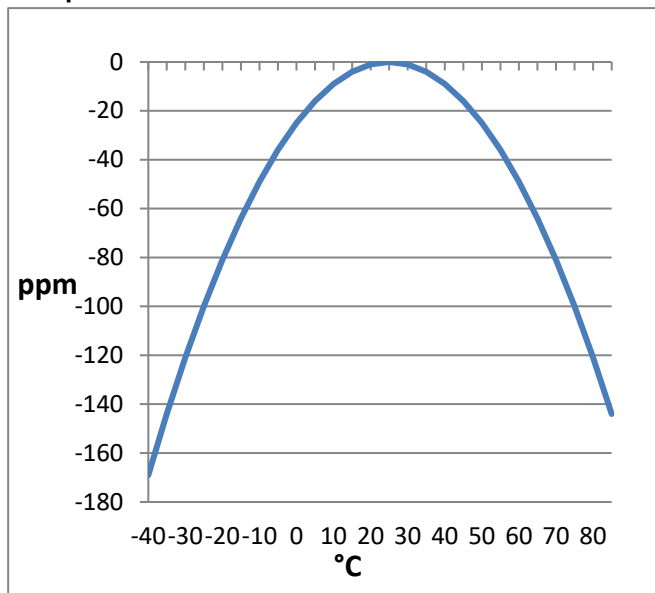
DATASHEET

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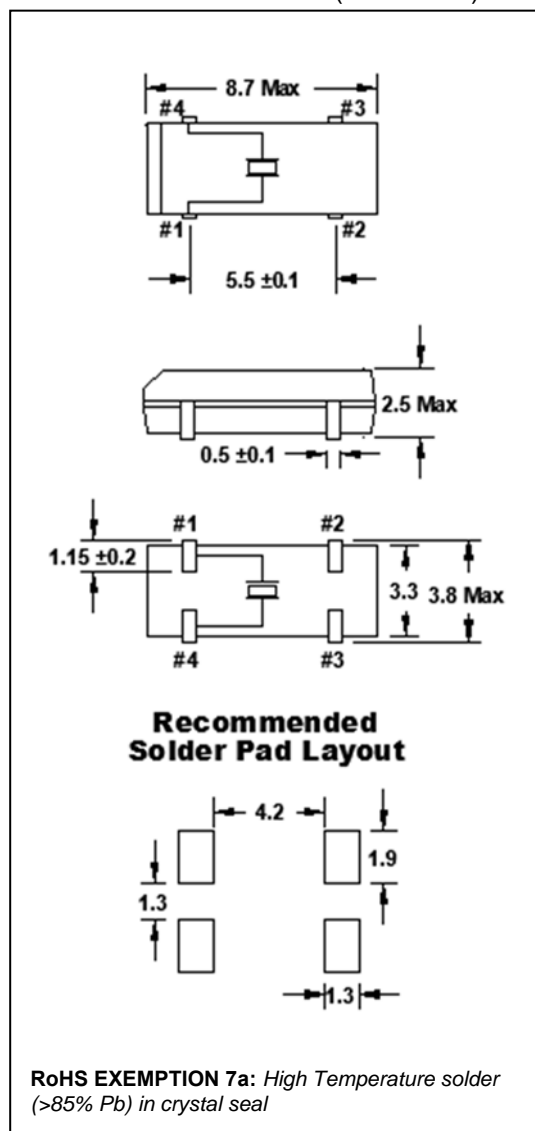
STANDARD SPECIFICATIONS

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 / ($\Delta^\circ\text{C}$) 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
Maximum Soldering Temp / Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Matte Sn
Lead (Pb) Free	Exemption 7a
RoHS Compliant	Yes
REACH Compliance	Notification of Lead (Pb) >0.1%(w/w)

Temperature Coefficient



Mechanical / Dimensions (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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Title / Description: KSFR STANDARD SPECIFICATIONS

Drawing Number: KSFR-DOC-1

Part Number:

Draftsperson: BEC

Size: A

Cage: 61429

Approved: MAJ

Revision Date: 2/3/2019



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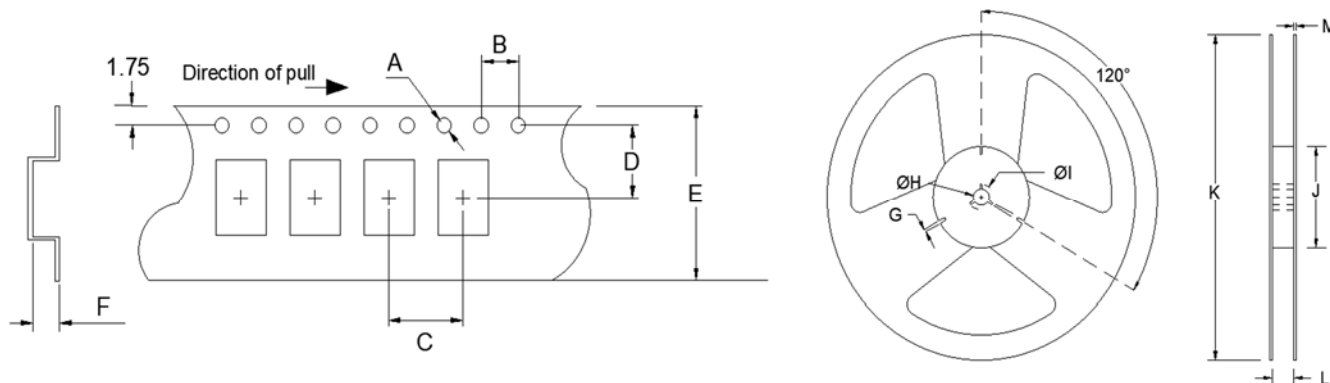
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• TAPE SPECIFICATIONS (millimeters)

A	B	C	D	E	F	Reel QTY
Ø1.55	4.0	8.0	7.5	16.0	2.7	T3 = 3,000

• REEL SPECIFICATIONS (millimeters)

G	H	I	J	K	L	M
2.0	Ø13	Ø21	Ø50	Ø330	16.4	2.0



Available Options & Part Identification for SMD Tuning Fork Crystal KFSR

F KFSR E I H M 0.032768

F	KFSR	E	I	H	M	0.032768
<u>FOX</u>	<u>Model Number</u>	<u>Tolerance</u> E = ± 20 ppm	<u>Stability</u> I = -0.04 PPM / $(\Delta^{\circ}\text{C})^2$	<u>Load Capacitance</u> B=6pF H=12.5pF	<u>Operating Temperature</u> M = $-40 \sim +85^{\circ}\text{C}$	<u>Frequency (MHz)</u>



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