

STANDARD SPECIFICATIONS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range	32.768 kHz
Frequency Tolerance @ 25°C	(See options below)
Frequency Stability, ref 25°C (Temperature Coefficient)	-0.04 PPM / (Δ°C) <sup>2</sup>
Temperature Range	
Turnover (T <sub>0</sub> )	+20°C ~ +30°C
Operating (T <sub>OPR</sub> )	-40°C ~ +85°C
Storage (T <sub>STG</sub> )	-55°C ~ +125°C
Equivalent Series Resistance (R <sub>S</sub> )	50 kΩ
Load Capacitance (C <sub>L</sub> )	(See options below)
Insulation Resistance @ 100V <sub>DC</sub>	500MΩ Min
Drive Level	1.0μW
Aging per year (@ 25°C)	±3 PPM
Maximum Soldering Temp / Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL) per J-STD-033	1
Termination Finish	Matte Sn
Lead (Pb) Free	Exemption 7a
RoHS Compliant	Yes
REACH Compliance	Notification of Lead (Pb) >0.1%(w/w)

**DIMENSIONS / MECHANICAL SPECIFICATIONS**

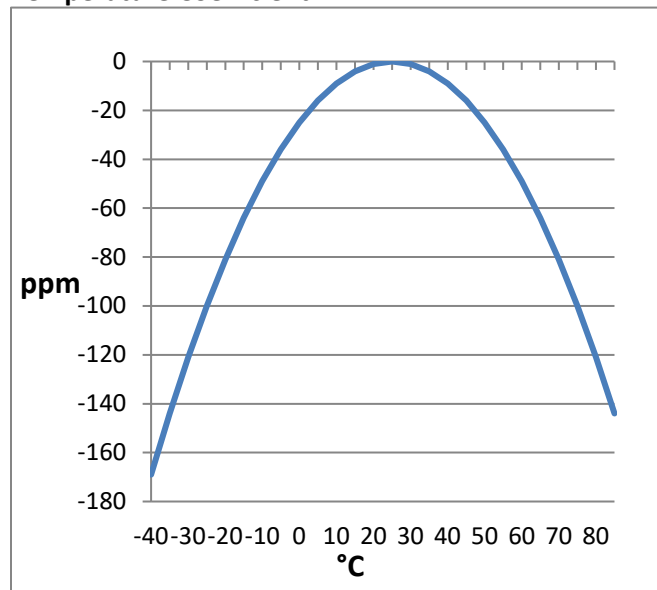
**Dimensions (mm)**

**Recommended Solder Pad Layout**

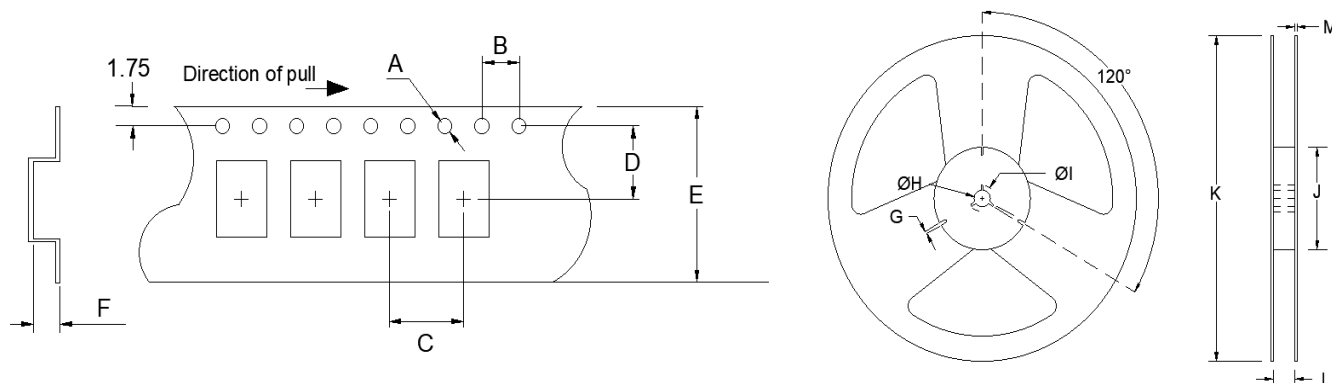
**RoHS EXEMPTION 7a: High Temperature solder (>85% Pb) in crystal seal**

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.

**Temperature Coefficient**



TAPE SPECIFICATIONS (mm)							REEL SPECIFICATIONS (mm)						
A	B	C	D	E	F	REEL QTY	G	H	I	J	K	L	M
Ø1.55	4.0	8.0	7.5	16.0	2.7	-T3 = 3,000	2.0	Ø13	Ø21	Ø50	Ø330	16.4	2.0



### Available Options & Part Identification for SMD Tuning Fork Crystal KFSR

Sample PN: FKFSREIHM0.032768-T3

F	KFSR	E	I	H	M	0.032768	-T3
<b>Fox</b>	<b>Model Number</b>	<b>Tolerance</b> E = ±20ppm	<b>Stability</b> I = -0.04 PPM/ (Δ°C) <sup>2</sup>	<b>Load Capacitance</b> B = 6pF H = 12.5pF	<b>Operating Temperature</b> M = -40 ~ +85°C	<b>Frequency (MHz)</b>	<b>Values Added Options</b> Blank = Bulk T3 = 3,000 pcs

### Reliability Test Conditions

Please contact Abracon Quality Assurance department

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