

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) ²
Temperature Range	
Turnover (T ₀)	+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 below)
Insulation Resistance @ 100V _{DC}	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)

The top view shows a rectangular package with a width of 8.7 mm (maximum) and a length of 5.5 ± 0.1 mm. The side view shows a height of 2.5 mm (maximum) and a thickness of 0.5 ± 0.1 mm. The bottom view shows a length of 1.15 ± 0.2 mm and a width of 3.3 mm (maximum) to 3.8 mm (maximum). The four solder pads are labeled #1, #2, #3, and #4.

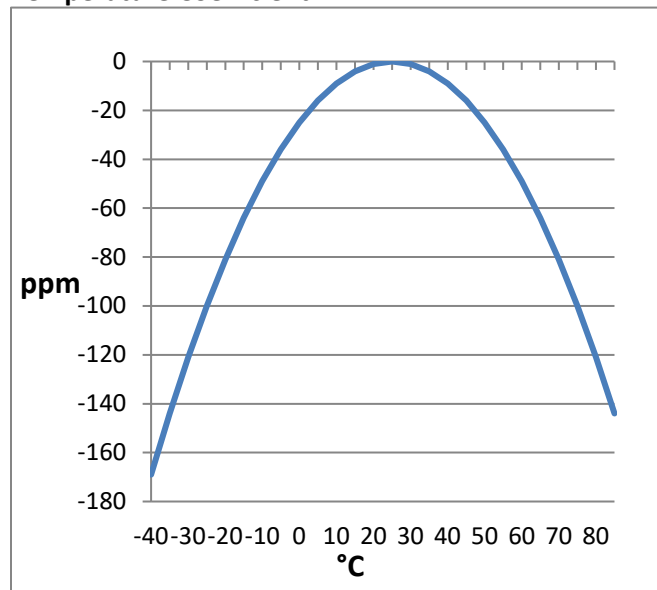
Recommended Solder Pad Layout

The recommended solder pad layout shows a central distance of 4.2 mm between pads #1 and #2. The distance between pads #3 and #4 is 1.3 mm. The width of pads #1 and #2 is 1.9 mm, and the width of pads #3 and #4 is 1.3 mm. The height of pads #1 and #2 is 1.3 mm, and the height of pads #3 and #4 is 1.9 mm.

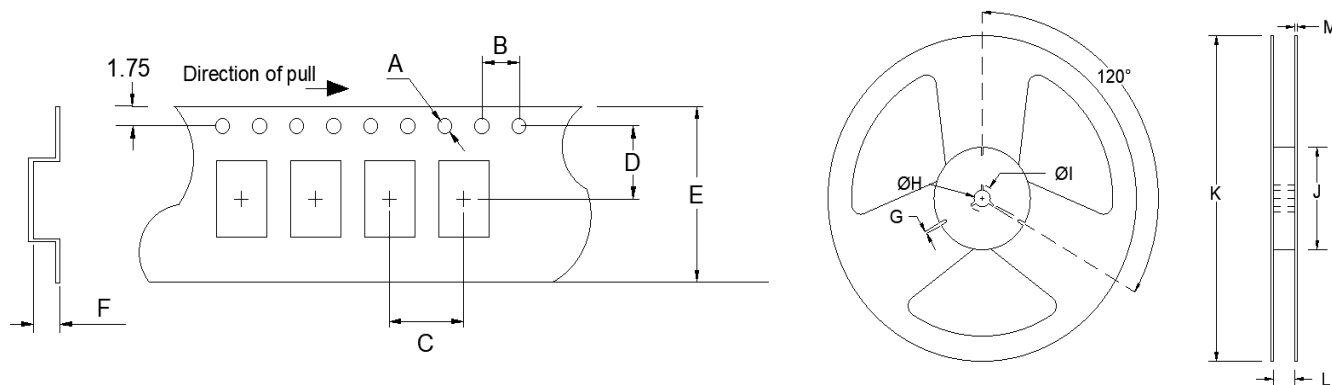
RoHS EXEMPTION 7a: High Temperature solder (>85% Pb) in crystal seal

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

Reliability Test Conditions

Please contact Abracon Quality Assurance department

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