

ECN/PCN No.: 3822

For Manufacturer			
Product Description: 32.768kHz SMD Crystal	Abracon Part Number / Part Series: FK255	<input type="checkbox"/> Documentation only <input type="checkbox"/> ECN <input checked="" type="checkbox"/> EOL	<input checked="" type="checkbox"/> Series <input type="checkbox"/> Part Number
Affected Revision: A	New Revision: EOL	Application:	<input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety
Prior to Change: FK255 Rev. A			
After Change: EOL			
Cause/Reason for Change: Discontinuation of this older product package type and associated manufacturing capability.			
Change Plan			
Effective Date: 05/7/2021	Additional Remarks:		
Change Declaration:			
Issued Date: 05/7/2021	Issued By: <i>Stephanie Lopez</i>	Issued Department: Engineering	
Approval: <i>Thomas Culhane</i> Engineering Director	Approval: <i>Reuben Quintanilla</i> Quality Director	Approval: <i>Ying Huang</i> Purchasing Director	
For Abracon EOL only			
Last Time Buy (if applicable): 06/30/2021	Alternate Part Number / Part Series: None		
Additional Approval:	Additional Approval:	Additional Approval:	
Customer Approval (If Applicable)			
Qualification Status: <input type="checkbox"/> Approved <input type="checkbox"/> Not accepted <i>Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.</i>			
Customer Part Number:		Customer Project:	
Company Name:	Company Representative:	Representative Signature:	
Customer Remarks:			

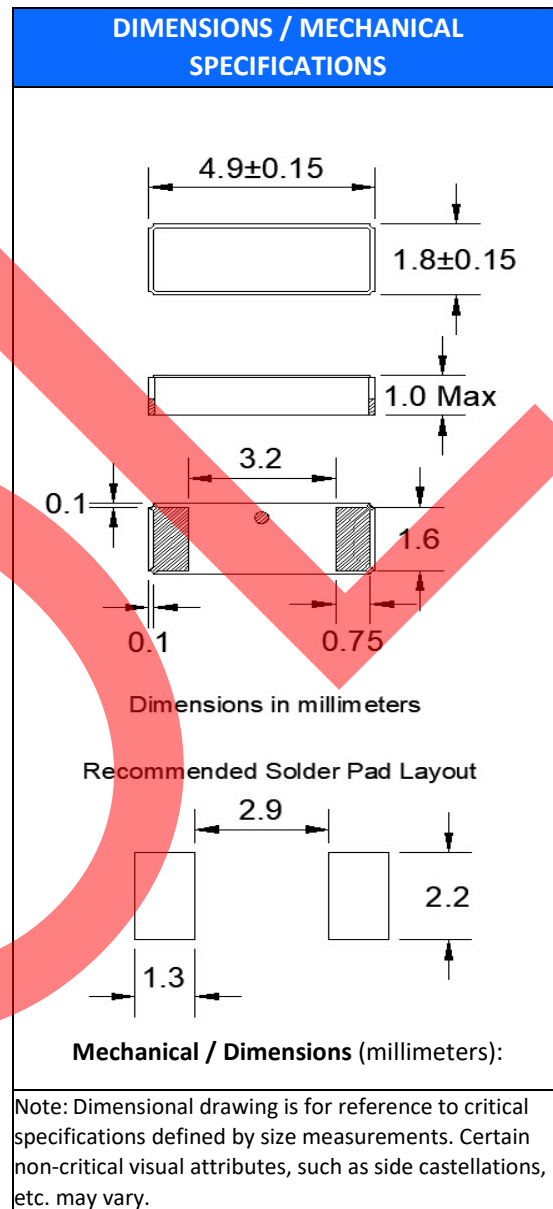
FK255

(Former FX255)

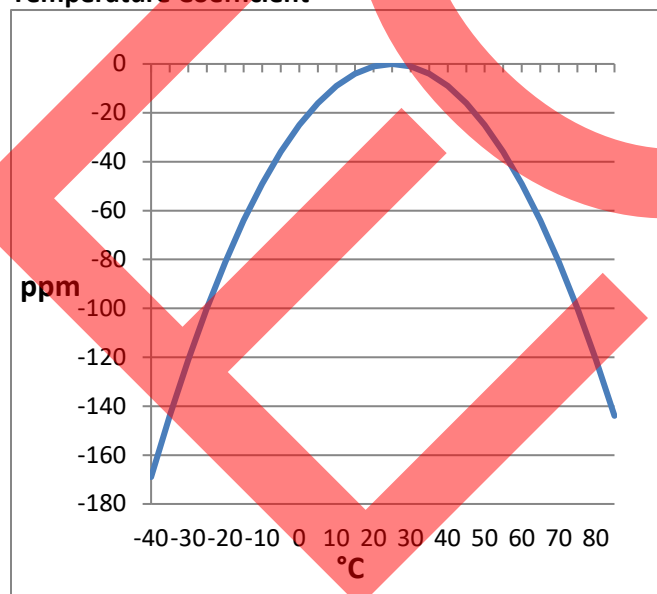
4.9mm x 1.8mm
SMD Tuning Fork



STANDARD SPECIFICATIONS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range	32.768 kHz
Frequency Tolerance @ 25°C	±20PPM
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)	70 kΩ
Load Capacitance (C _L)	(See options below)
Insulation Resistance @ 100V _{DC}	500MΩ Min
Drive Level	1.0μW (0.1μW Typical)
Aging per year (@ 25°C)	±3 PPM
Maximum Soldering Temp / Time	260°C / 10 Seconds x2
Moisture Sensitivity Level (MSL) per J-STD-033	1
Termination Finish	Au over Ni
Seal Method	Au/Sn
Lead (Pb) Free	Yes
RoHS Compliant	Yes



Temperature Coefficient



FK255

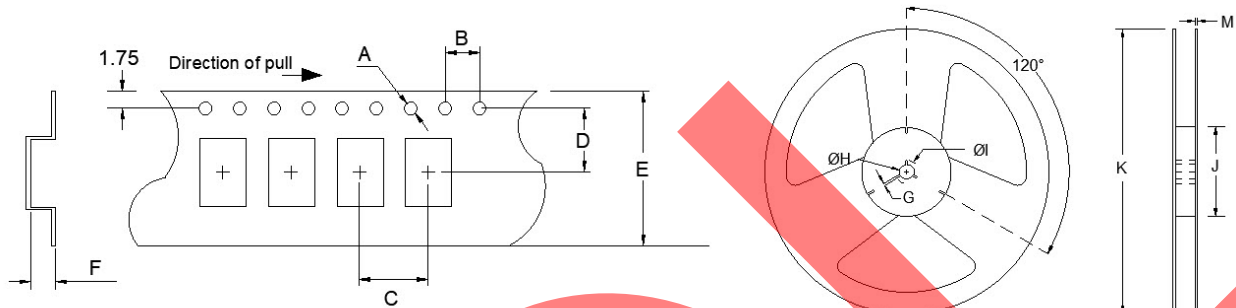
(Former FX255)

4.9mm x 1.8mm

SMD Tuning Fork



TAPE SPECIFICATIONS (mm)						REEL SPECIFICATIONS (mm)							
A	B	C	D	E	F	REEL QTY	G	H	I	J	K	L	M
Ø1.5	4.0	8.0	5.5	12.0	0.8	-T3 = 3,000	2.0	Ø13	Ø21	Ø60	Ø180	13.0	2.0



Available Options & Part Identification for SMD Tuning Fork Crystal K255

Sample PN: **FK255EIHM0.032768-T3**

F	K255	E	I	H	M	0.032768	-T3
Fox	Model Number	Tolerance E = ±20ppm	Stability I = -0.04 PPM/ (Δ°C) ²	Load Capacitance V = 7pF W = 9pF 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