

ECN/PCN No.: 3822

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

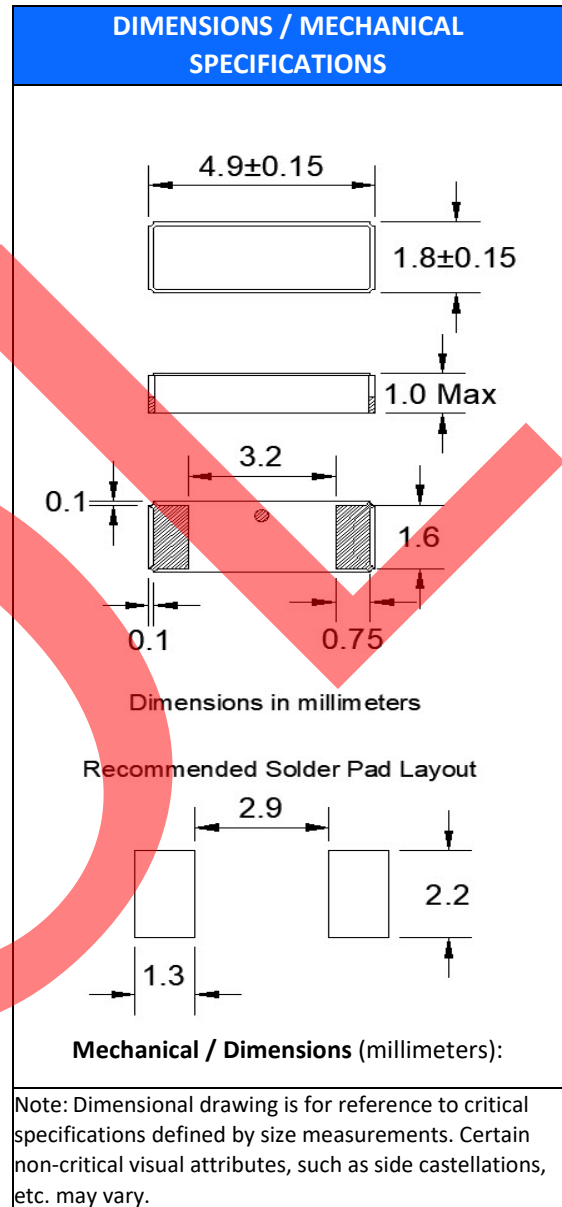
# FK255

(Former FX255)

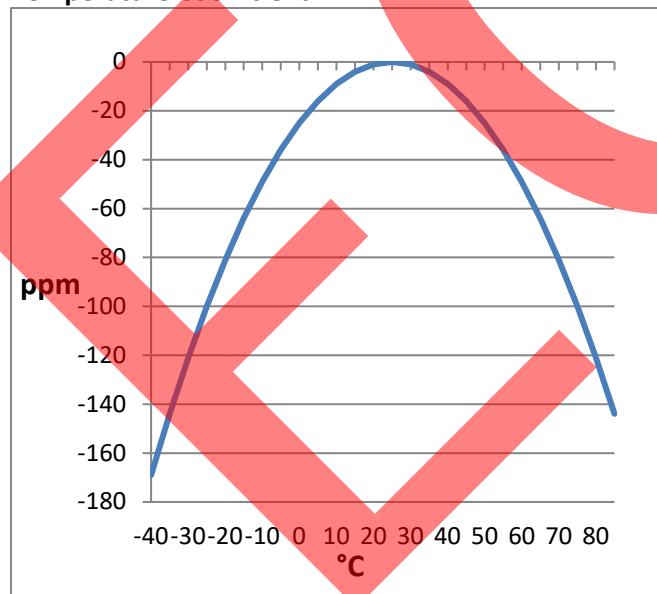
4.9mm x 1.8mm  
SMD Tuning Fork



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) <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> )	70 kΩ
Load Capacitance (C <sub>L</sub> )	(See options below)
Insulation Resistance @ 100V <sub>DC</sub>	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**



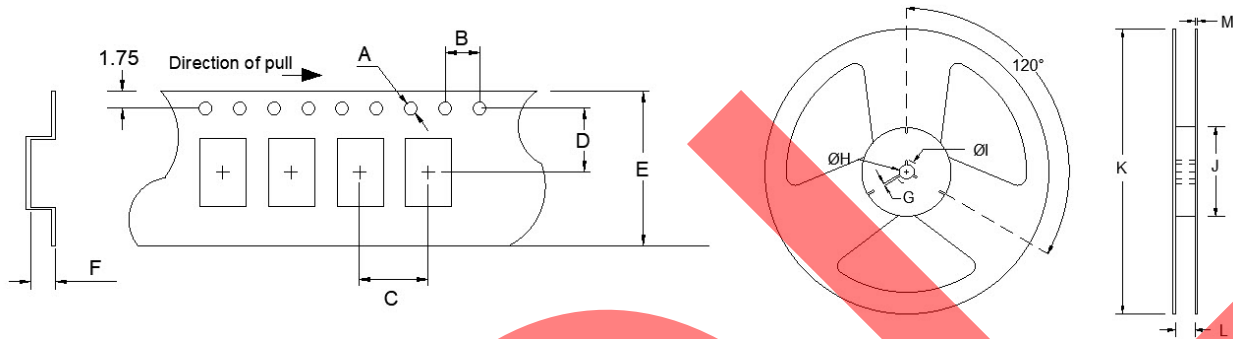
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4.9mm x 1.8mm  
SMD Tuning Fork



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
<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> V = 7pF W = 9pF 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