SMD 3.2x1.5mm Tuning Fork

Model: FX135

RoHS Compliant / Pb Free

• 9pF Available (FX135B-327)

Rev. 3/20 http://www.foxonline.com/need_a_sample.htm

> Need a Sample®

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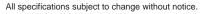
FEATURES

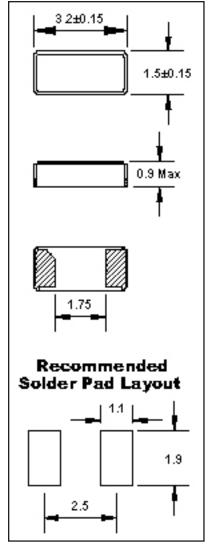
OPTIONS

- Ultra Low Profile
- 0.9mm Height
- Long Term Stability
- Tape and Reel (3,000 pcs.STD)

PART NUMBER									
Ī	Part Number	Model	Frequency	Operating	Frequency				
		Number	Stability	Temperature					
	739-Frequency-xxxxx	FX135	-0.045PPM/(A°C)2	-40 °C~ +85 °C	32 768 kHz				

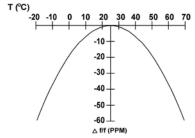
• STANDARD SPECIFICATIONS						
PARAMETERS	MAX (unless otherwise noted)					
Frequency	32.768 kHz					
Frequency Tolerance @ 25°C	±20 PPM					
Frequency Stability						
Temperature Coefficient	-0.045 PPM / (Δ°C) ²					
Temperature Range						
Turnover (To)	+20°C ~ +30°C					
Operating (TOPR)	-40°C ~ +85°C					
Storage (TSTG)	-55°C ~ +125°C					
Equivalent Series Resistance (Rs)	70 kΩ					
Load Capacitance (CL)	12.5 pF(Standard)					
	(Fox P/N: FX135A-327)					
	9pF (Optional)					
	(Fox P/N: FX135B-327)					
Insulation Resistance @ 100VDC	500MΩ Min					
Drive Level	1.0 μW					
	0.1 μW Typ					
Aging per year	±3 PPM					
Maximum Soldering Temp / Time	260°C / 10 Seconds					
Moisture Sensitivity Level (MSL)	1					
Termination Finish	Au over Ni					





All dimensions are in millimeters.

Parabolic Temperature Curve



To determine frequency stability, use parabolic curvature (K). For example: What is stability at 45°C?

1) Change in T (℃) = 45-25 = 20℃ 2) Change in frequency = -0.04 PPM * (△ C)² $= -0.04 \text{ PPM} * (20)^2$ = -16.0 PPM

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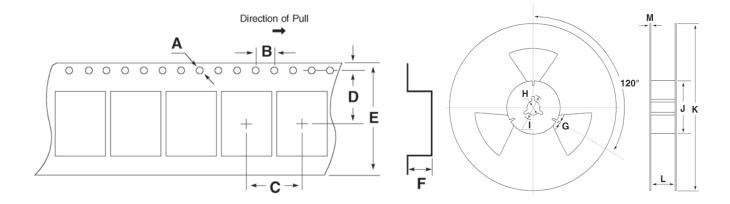
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• TAPE SE	TAPE SPECIFICATIONS (millimeters)							
MODEL	Α	В	С	D	Е	F	STD Reel QTY	
FX135	Ø1.5	4.0	4.0	5.5	12.0	1.0	3,000	

• REEL SPECIFICATIONS (millimeters)									
MODEL	G	Н	ı	J	K	L	M		
FX135	2.0	Ø13	Ø 21	Ø60	Ø180	13.0	1.2		



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ABRACON:

FX135A-327 FX135B-327