Vishay Dale



Tuning Fork Crystal



The tuning fork type quartz crystal provides ultimate in size, performance and economic trade-offs. So it is used as a

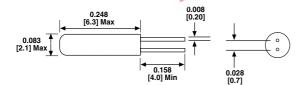
FEATURES

- Miniature package
- Low cost
- KHz frequency
- Tight tolerance
- 100 % Lead (Pb)-free and RoHS compliant



GIANDAND ELECTRICAL GI LON IGATIONS						
PARAMETER	SYMBOL	CONDITION	UNIT	MIN	TYPICAL	MAX
Frequency Range	Fo		KHz 🚴	30	32.768	
Frequency Tolerance	∆F/F _O	at 25 °C	ppm		± 20	
Frequency Coefficient	K	ref to 25 °C	ppm/(∆°C) ²			- 0.042
Operating Temperature Range	T _{OPR}		°C	- 10		+ 60
Storing Temperature Range	T _{STG}		°C	- 20		+ 70
Shunt Capacitance	Co		pF		0.85	2
Motional Capacitance	C ₁		fF	1	2	4
Load Capacitance	CL		pF		12.5	
Insulation Resistance	IR	100 V _{DC}	MΩ	500		
Drive Level	DL		μW			1
Aging (first year)	Fa	at 25 °C ± 3 °C	ppm	- 5.0		+ 5.0
Equivalent Series Resistance(ESR)	Rs		ΚΩ			50

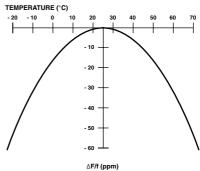
DIMENSIONS in inches [millimeters]



XT26T 32.768 kHz e2 MODEL FREQUENCY/kHz JEDEC LEAD (Pb)-FREE

STANDARD

PARABOLIC TEMPERATURE CURVE

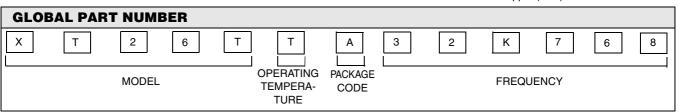


To determine frequency stability, use parabolic curvature (k). For example: What is stability at 45 °C?

- 1) Change in Temperature (°C) = 45 25 = 20 °C
- 2) Change in Frequency = 0.042 ppm*(Δ °C)

= - 0.042 ppm*(20)²

= - 16.8 ppm (max)

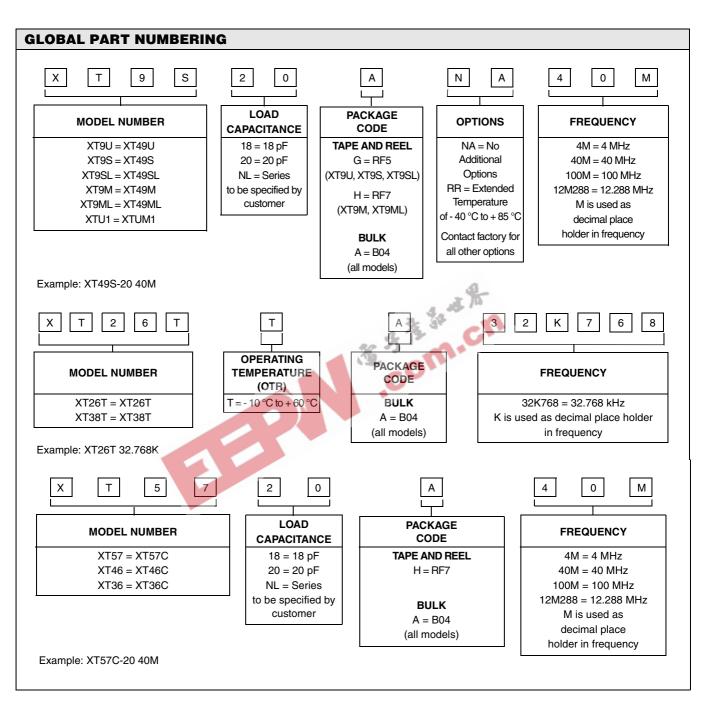






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Document Number: 35017 Revision: 18-Oct-07





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Revision: 18-Jul-08

Document Number: 91000 www.vishay.com