

Tuning Fork Crystal



FEATURES

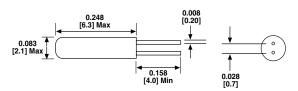
- Miniature package
- Low cost
- KHz frequency
- Tight tolerance
- 100 % Lead (Pb)-free and RoHS compliant



The tuning fork type quartz crystal provides ultimate in size, performance and economic trade-offs. So it is used as a clock source in communication equipment, measuring instrument, microprocessor and other time management applications.

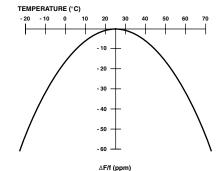
STANDARD ELECTRICAL SPECIFICATIONS							
PARAMETER	SYMBOL	CONDITION	UNIT	MIN	TYPICAL	МАХ	
Frequency Range	Fo		KHz		32.768		
Frequency Tolerance	$\Delta F/F_0$	at 25 °C	ppm		± 20		
Frequency Coefficient	К	ref to 25 °C	ppm/(∆°C) ²			- 0.042	
Operating Temperature Range	T _{OPR}		°C	- 10		+ 60	
Storing 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		KΩ			50	

DIMENSIONS in inches [millimeters]



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

PARABOLIC TEMPERATURE CURVE

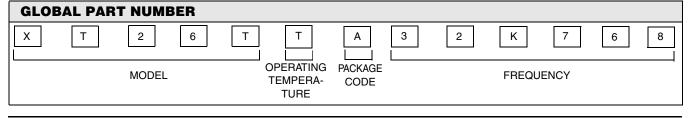


To determine frequency stability, use parabolic curvature (k). For example: What is stability at 45 °C?

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)

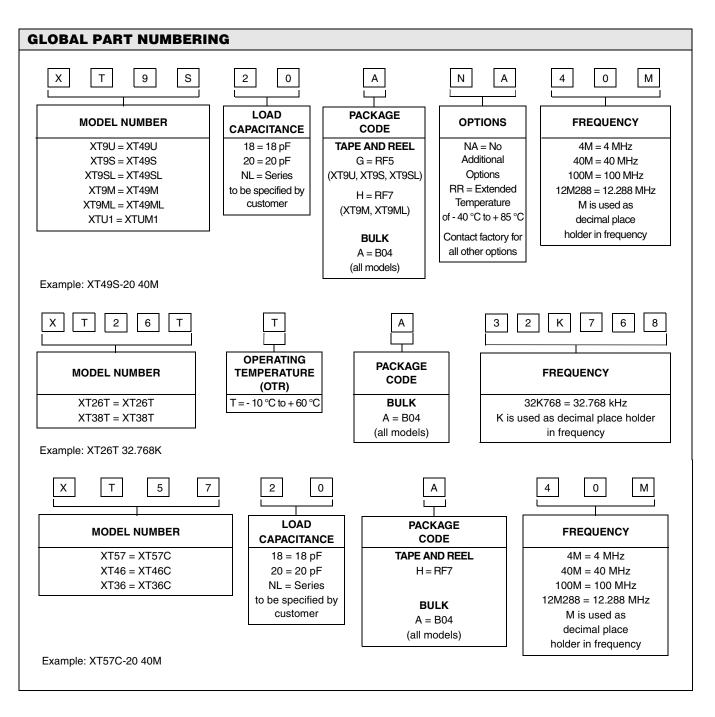




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XT26T

Vishay Dale





Vishay

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