

XT26T

RoHS

COMPLIANT

Vishay Dale

Tuning Fork Crystal

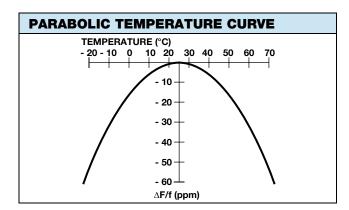


The tuning fork type quartz crystal provides ulitmate in size, performance and economic trade-offs. So it is used as a clock source in communication equipment, measuring instrument, microprocessor and other time managment applications.

FEATURES

- Miniature package
- Low cost
- kHz frequency
- Tight tolerance
- Compliant to RoHS directive 2002/95/EC

STANDARD ELECTRICAL SPECIFICATIONS						
PARAMETER	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.
Frequency range	Fo		kHz	-	32.768	-
Frequency tolerance	$\Delta F/F_{O}$	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
Storage temperature range	T _{STG}		°C	- 20	-	+ 70
Shunt capacitance	C ₀		pF	-	0.85	2
Motional capacitance	C ₁		fF	1	2	4
Load capacitance	CL		pF	-	12.5	-
Insulation resistance	I _R	100 V _{DC}	MΩ	500	-	-
Drive level	DL		μW	-	-	1
Aging (first year)	Fa	at 25 °C ± 3 °C	ppm	- 5	-	+ 5
Equation series resistance (ESR)	Rs		kΩ	-	-	50



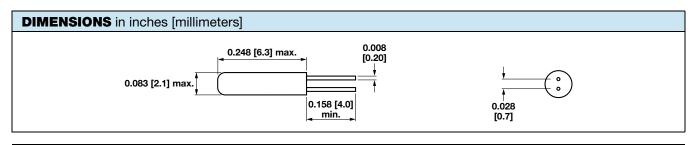
To determine frequency stability, use parabolic curvature (k).

For example: What is stability at 45 °C?

- 1. Change in temperature (°C) = 45 °C 25 °C = 20 °C
- 2. Change in frequency = 0.042 ppm x (Δ° C)

= - 0.042 ppm x (20)²

= - 16.8 ppm (max.)



Document Number: 35017 Revision: 09-Mar-10

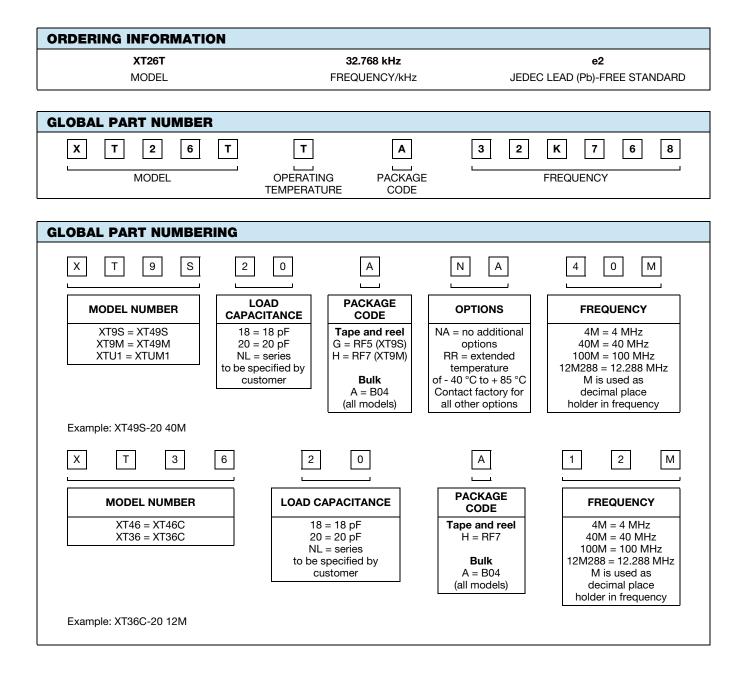
For technical questions, contact: frequency@vishay.com

XT26T

Vishay Dale

Tuning Fork Crystal







Vishay

Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.