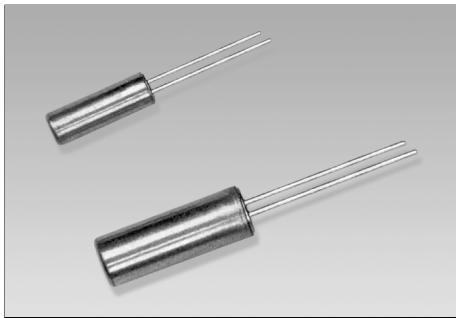




• ETDA Series DT-26 32.768KHz Crystal



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 application.

FEATURES

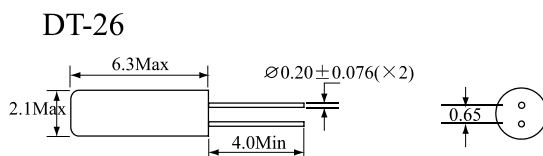
- Miniature Package
- Low Cost
- KHz Frequency
- Tight Tolerance

Electrical Specifications

Item	Type	ETDA
Frequency Range	F0	32.768KHz(30~100KHz)
Load Capacitance	CL	12.5pF
Frequency Tolerance	$\Delta F / F_0$	$\pm 10\text{ppm}, \pm 20\text{ppm}, \pm 100\text{ppm}$ (At 25°C)
Equivalent Series Resistance	ESR	50K Ω max.
Temperature Coefficient	K	$-0.042\text{ppm} * (\Delta^\circ\text{C})^2$ max.
Operating Temperature Range	T _{OPR}	-10~+60°C
Storage Temperature Range	T _{STG}	-20~+70°C
Shunt Capacitance	C0	0.85pF typ.
Motional Capacitance	C1	2fF typ.
Insulator Resistance	IR	500M Ω min. (At 100VDC)
Drive Level	DL	1 μ W max.
Aging	Fa	$\pm 5\text{ppm}$ max. (At 25°C, Frist year)
Packing Unit		1000pcs/bag

**Please contact us for inquiries regarding other Specifications

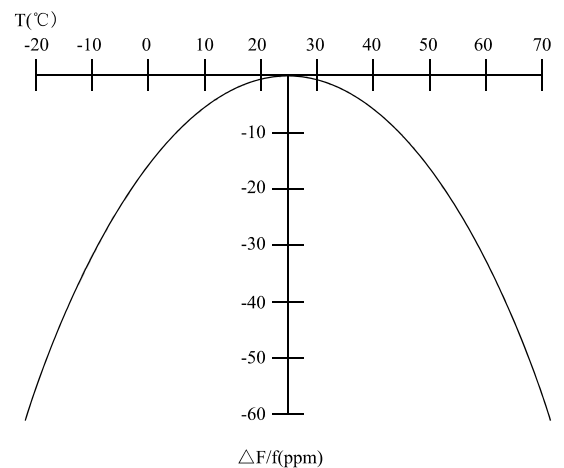
Mechanical Dimensions(mm)



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

- 1).change in T(°C)=45-25=20°C
- 2).Change in frequency = $-0.042\text{ppm} * (\Delta^\circ\text{C})^2$
= $-0.042\text{ppm} * (20)^2$
= -16.8ppm (max)

Parabolic Temperature Curve



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Specifications are subject to change without notice