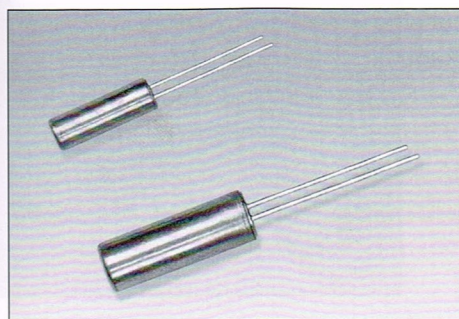


• DT-26 & DT-38 Series



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

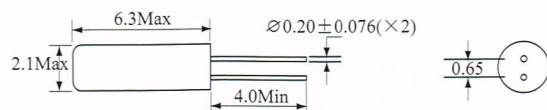
- Miniature Package
- Low Cost
- KHz Frequency
- Tight Tolerance

Electrical Specifications

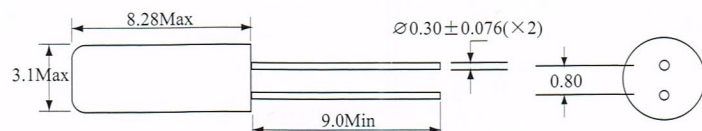
Item	Type	DT-26	DT-38
Frequency Range	F0	32.768KHz(30~100KHz)	32.768KHz(30~100KHz)
Load Capacitance	CL	12.5pF	
Frequency Tolerance	$\Delta F/F_0$	$\pm 10\text{ppm}, \pm 20\text{ppm}, \pm 100\text{ppm}(\text{At } 25^\circ\text{C})$	
Equivalent Series Resistance	ESR	50K Ω max.	35K Ω max.
Temperature Coefficient	K	$-0.042\text{ppm}^*(\Delta^\circ\text{C})^2$ max.	
Operating Temperature Range	T _{OPR}	$-10\sim+60^\circ\text{C}$	
Storage Temperature Range	T _{STG}	$-20\sim+70^\circ\text{C}$	
Shunt Capacitance	C0	0.85pF typ.	
Motional Capacitance	C1	2fF typ.	
Insulator Resistance	IR	500M Ω min. (At 100VDC)	
Drive Level	DL	1 μW max.	
Aging	Fa	$\pm 5\text{ppm}$ max. (At 25°C , First year)	
Packing Unit		1000pcs/bag	

Mechanical Dimensions(mm)

DT-26



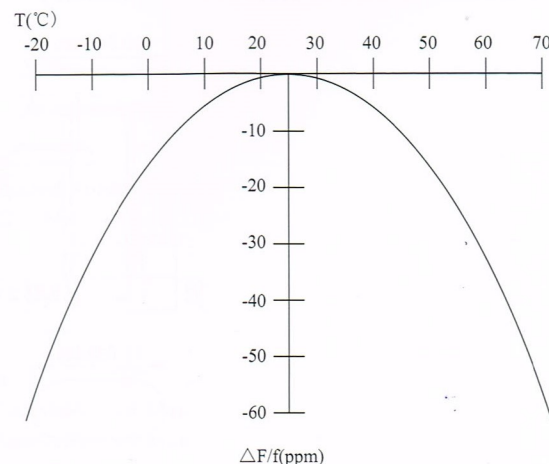
DT-38



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

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

Parabolic Temperature Curve



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Specifications are subject to change without notice

Tuning fork Part Numbering System

<u>ET</u>	<u>DA</u>	<u>32.768</u>	<u>B</u>	<u>125</u>	<u>B</u>	<u>MB</u>	<u>L</u>
Internal Code							
Package	Nominal Frequency (In KHz)	Operation temperature Range	Load Capacitance	Frequency Tolerance	Marking	Option (can be blank)	
DA=DT-26 DB=DT-38	Please enter the nominal frequency (6 digitals include the decimal)	A=0℃ to +50℃ B=-10℃ to +60℃ C=-10℃ to +70℃ D=-20℃ to +70℃ W=-40℃ to +85℃	060=6.0pF 125=12.5pF 100=10pF (Pls enter the value of load capacitance)	A=±10ppm B=±20ppm C=±30ppm D=±50ppm E=±100ppm Y=±15ppm Z=±25ppm	MP=With Marking MB=No Marking	L=Lead Cut R=Taping And Reel G=Gull Wing X=SpeCial SM=SMD Type F=Lead Free	

Through Hole Crystal Units Part Numbering System

<u>E</u>	<u>SA</u>	<u>3.57954</u>	<u>F</u>	<u>20</u>	<u>A</u>	<u>3</u>	<u>3</u>	<u>L</u>
Internal Code								
Package	Nominal Frequency (In MHz)	Vibration Mode	Load Capacitance	Operating temperature Range	Frequency Tolerance	Frequency Stability	Option (can be blank)	
SA=HC-49SA SB=HC-49SMA SC=HC-49SB SD=HC-49SMB	Please enter the nominal frequency (7 digitals include the decimal)	F=AT-Fund T=AT-3 RD B=BT-Fund	00=series 10=10pF 32=32pF (Pls enter the value of load capacitance)	A=0℃ to +50℃ B=0℃ to +70℃ C=-10℃ to +60℃ D=-10℃ to +70℃ E=-20℃ to +70℃ M=-40℃ to +85℃ S=Others	1=±10ppm 2=±20ppm 3=±30ppm 5=±50ppm 0=±100ppm Y=±15ppm Z=±25ppm	1=±10ppm 2=±20ppm 3=±30ppm 5=±50ppm 0=±100ppm Y=±15ppm Z=±25ppm	L = Cut Lead S = Insulator Tab V = Insert Vinyl Sleeve X = Others, Pls Specify F = Lead Free	