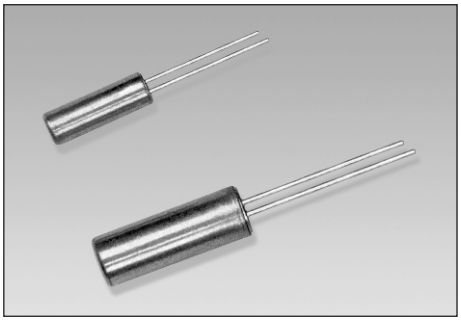
• DT-26 & DT-38 Series



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

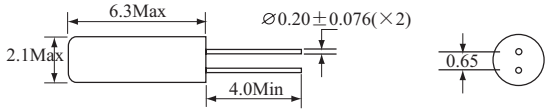
- Miniature Package
- Low Cost
- KHz Frequency
- Tight Tolerance
- SMD Type SM308

Electrical Specifications

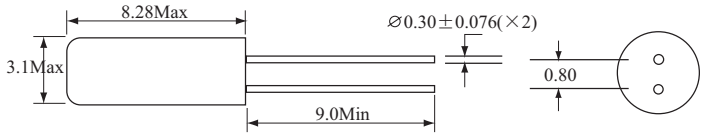
Item	Type	DT-26	DT-38
Frequency Range	Fo	32.768KHz(30~100KHz)	32.768KHz(30~100KHz)
Load Capacitance	C_L	12.5pF	
Frenqency Tolerance	△F/ Fo	±10ppm,±20ppm,±100ppm(At 25℃)	
Equivalent Series Resistance	ESR	50KΩ max.	35KΩ max.
Temperature Cofficient	K	-0.042ppm*(△℃)^2 max.	
Operating Temperature Range	T_{OPR}	−10~+60℃	
Storage Temperature Range	T_{STG}	−20~+70℃	
Shunt Capacitance	C_O	0.85pF typ.	
Motional Capacitance	C_1	2fF typ.	
Insulator Resistance	I_R	500MΩ min. (At 100V_{DC})	
Drive Level	D_L	1μW max.	
Aging	Fa	±5ppm max. (At 25℃,Frist year)	
Packing Unit		1000pcs/bag	

Mechanical Dimensions(mm)

DT-26



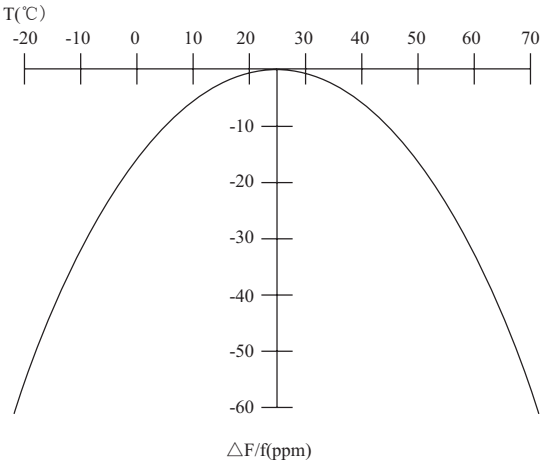
DT-38



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

1).change in T(℃)=45-25=20℃
2).Change in frequency = -0.042ppm*(△℃)^2
= -0.042ppm*(20)^2
= -16.8ppm(max)

Parabolic Temperature Curve



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