

TUNING FORK QUARTZ CRYSTAL



• 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

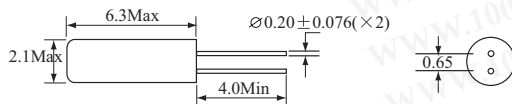
勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Electrical Specifications

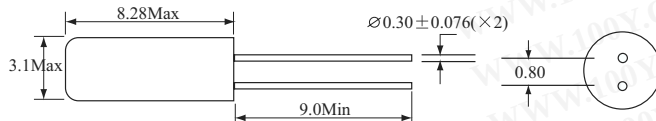
Parameter	Symb	Condition	Min	Typ	Max	Units
Frequency Range	Fo		30	32.768	100	KHz
Frequency Tolerance	$\Delta F / F_o$	AT 25°C	± 10	± 20	± 100	ppm
Temperature Coefficient	K	REF TO 25°C			-0.042	ppm/(°C) ²
Operating Temperature Range	T _{OPR}		-10		+60	°C
Storage Temperature Range	T _{STG}		-20		+70	°C
Shunt Capacitance	C _o			0.85	2	pF
Motional Capacitance	C ₁		1	2	4	fF
Load Capacitance	CL		6	12.5	Series	pF
Insulation Resistance	IR	100V _{DC}	500			MΩ
Drive Level	DL				1	μW
Aging(First year)	Fa	AT 25°C ± 3°C	-5.0		+5.0	ppm
Equivalent Series Resistance(ESR)	Rs	DT-38			35	KΩ
		DT-26			50	KΩ

Mechanical Dimensions(mm)

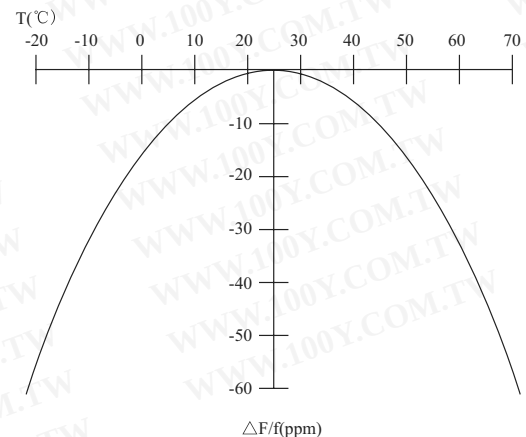
DT-26



DT-38



Parabolic Temperature Curve



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 = -0.042ppm*(Δ°C)²
= -0.042ppm*(20)²
= -16.8ppm(max)

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Specifications are subject to change without notice