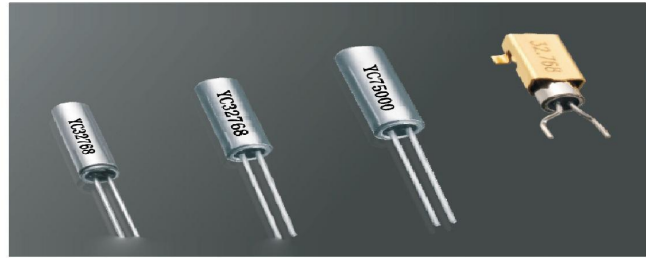




■ Features

Tuning Fork Reliability
Small Size
High Performance to Cost Ratio
Excellent Aging Characteristics



■ Specifications

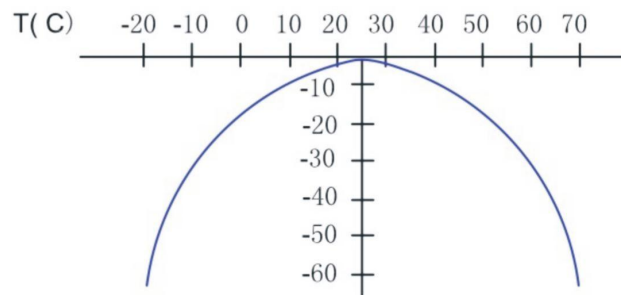
Type		Φ1.5×5, Φ2×6, Φ3×8
频率范围 Frequency Range(KHz)	Tuning fork	20.000~200.000KHz
调整频差 (ppm)	Frequency Tolerance (at 25°C)	±20~ ±50ppm
温度特性	Temperature Characteristics	
拐点温度 (°C)	Turnover Temperature	25°C ±5°C
二次温度系数	Parabolic Curvature constant	- 0.034±0.006 ppm/°C ²
工作温度 (°C)	Operating Temperature	-10°C ~ +60°C
储存温度 (°C)	Storage Temperature Range	-30°C ~ +85°C
等效电阻 (Ω)	Equivalent Series Resistance	50KΩ MAX
静态电容 (pF)	Shunt Capacitance	0.6pF ~ 2.0pF
负载电容 (pF)	Load Capacitance	6pF ~ ∞, 12.5pF (Standard)
绝缘电阻 (MΩ)	Insulation Resistance	≥500MΩ//DC100V ± 10V
激励功率 (mW)	Drive Level	1.0 μ W Max
老化率 (ppm/y)	Aging	±5ppm/year

■ OptioSn Available

Options Available	Item
V	Paper tape & reel packing/ammo packing
V	Vinyl sleeve on crystal cover
V	Lead cut/customer lead length options available
V	Special ESR
V	Gull wing option

Tuning Fork (DIA-105, DIA-206, DIA-308)

■ Parabolic Temperature Curve



To determine frequency stability, use parabolic curvature
For example: What is the stability at 45°C

$$\begin{aligned}
 1) \text{ Change in } T(^{\circ}\text{C}) &= 45 - 25 = 20^{\circ}\text{C} \\
 2) \text{ Change in frequency} &= -0.04 \text{ PPM} \times (\Delta T)^2 \\
 &= -0.04 \text{ PPM} \times (20)^2 \\
 &= -16.0 \text{ PPM}
 \end{aligned}$$

■ Dimension (Unit: mm)

