



TUNING FORK QUARTZ CRYSTAL UNITS

◆JU-26 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

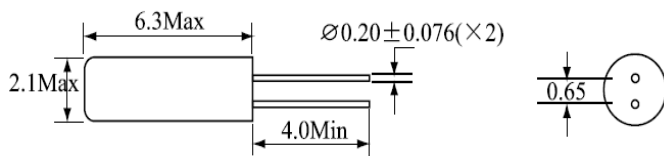
FEATURES

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

◆标准规格Electrical Specifics

Item	Type	JU-26
标准频率Frequency Range	F0	32.768KHz
负载电容Load Capacitance	CL	6pF~12.5pF
温度频差Frequency Tolerance $\Delta F/F_0$		$\pm 10\text{ppm} \pm 20\text{ppm} \pm 50\text{ppm}$ (At 25°C)
等效电阻Equivalent Series Resistance ESR		35K Ω , 50K Ω max
温度系数Temperature Stability K		-0.042ppm*($\Delta^\circ\text{C}$) ² max
工作温度Operating Temperature Range		-20~+70°C, -30~+85°C
贮存温度Storage Temperature Range		-20~+70°C, -30~+85°C
静态电容Shunt Capacitance C0		1.6pF typ.
动态电容Motional Capacitance C1		2pF typ.
绝缘电阻Insulator Resistance IR		500M Ω min. (At 100VDC)
激励功率Drive level DL		1 μW max
年老化率Aging Fa		$\pm 5\text{ppm}$ max. (At 25°C, First year)
最小包装Packing Unit		1000pcs/bag

◆外型尺寸Mechanical Dimensions(mm)



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 = -0.042ppm*($\Delta^\circ\text{C}$)²
= -0.042ppm*(20)²
= -16.8ppm(max)

Parabolic Temperature Curve

