



DIP QUARTZ CRYSTAL RESONATOR

石英晶体谐振器



DIP Tuning Fork 3×8 mm

- Tuning fork crystal in 3 x 8 mm cylinder type
- 32.768 KHz standard
- ±20 ppm Standard
- Excellent Reliability Performance



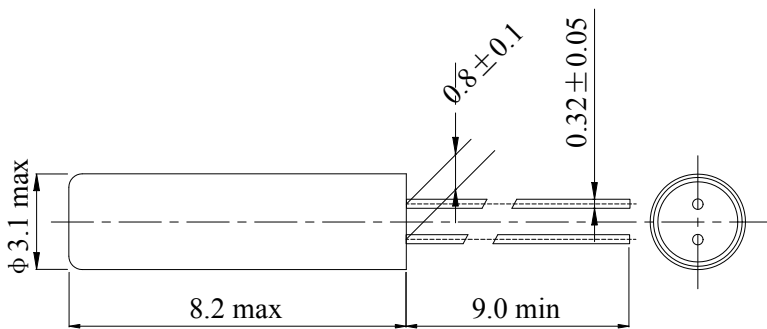
RoHS compliant

★ PARAMETERS 技术参数

PARAMETERS	参数	SPECIFICATION 规格
Frequency Range	频率范围	32.768KHz (30.00~ 200.00 KHz available)
Loading Capacitance	负载电容	12.5pF Std. 6 pF~20pF available
Drive Level	激励电平	1.0 μ W Max
Frequency Tolerance	频率偏差	±5ppm / ±10ppm / ±20ppm (at 25℃)
Equivalent Resistance	谐振电阻	30K Ω Max
Temperature coefficient	温度曲线系数	-0.04×10 ⁻⁶ /°C ² max, -0.034×10 ⁻⁶ /°C ² typical
Operating Temp. Range:	工作温度范围	-20~+70℃ / -40~+85℃
Storage Temp. Range:	储存温度范围	-40~+85℃
Aging (25℃, First Year)	老化率	±5ppm max

◎ All specification subject change without notice. 规格变化, 恕不另行通知。

★ DIMENSIONS & LAND PATTERN LAYOUT (Unit: mm) 外形尺寸



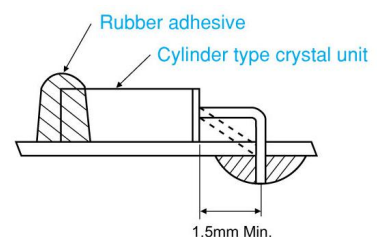
★ Frequency Stability vs. Temperature 温频特性

Operating Temperature Range	Frequency Stability		
	-80ppm	-160ppm	
-10℃~+60℃	●		
-20℃~+70℃		●	

● standard ○ available

● Mounting of cylinder type products:

Soldering the body of the cylinder type crystal units with PCB must be avoided due to deteriorate the characteristics or damage the products. Rubber adhesive is recommended.



● Soldering

Lead wires should be soldered within 3 seconds with the soldering iron heated to a temperature no higher than 300℃



★ PART NUMBER GUIDE 部件号示例 e.g. HLX32.768K12.5D8-20 (*D8=3.0×8.0mm)

	Quartz Crystal Resonator 石英晶体谐振器	Frequency 频率	Load Capacitance 负载电容	Package 盒型	Frequency Tolerance 常温频差 ppm
HL	X	32.768KHz	12.5	D8	20

★ WAVE SOLDERING PROFILE 波峰焊特性

