

晶体谐振器 Crystal Resonator: KX1040 KX2060 KX3080

Feature 特征

- Ultra-compact, thin, lightweight crystal unit 超小型，轻薄，轻量化圆柱 kHz 谐振器
- Excellent electrical characteristics, ideal for portable electronic products, frequency sources 优异的电性能，适用于便携电子设备，频率源等

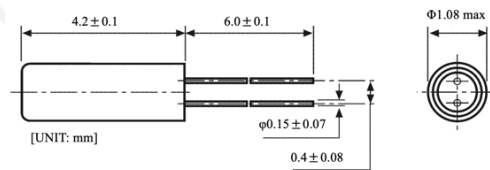
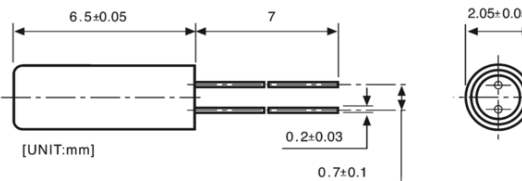
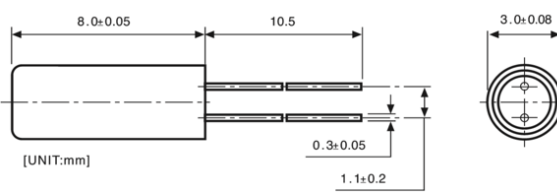


General Specifications 规格参考

PARAMETER	性能参数	KX1040	KX2060	KX3080
Frequency Range	频率范围	32.768 kHz	25KHz ~ 200KHz	
Oscillation Mode	振荡方式	基频		
Frequency Tolerance (25°C±3°C)	调整频差	±10ppm or ±20ppm (max)		
Load Capacitance	负载电容	12.5pF	7~12.5pF	
Frequency Stability	温度频差	-0.035ppm * (T - 25)²		
Operating Temperature Range	温度范围	-10°C ~ +60°C		
Equivalent Series Resistance	谐振电阻	50 KΩ max	50 KΩ max	10~20KΩ
Drive Level	激励电平	0.1μW typical, 0.5μW max		
Shunt Capacitance	静电容	2.5pF max		
Insulation Resistance	绝缘电阻	500MΩ min		
Storage Temperature Range	储存温度范围	-40°C to +85°C		
Aging Per Year	年老化率	±3ppm/year max	±3ppm ~ ±5ppm /year max	
Temperature Coefficient	频率温度系数	-0.035ppm/°C² max		
Turnover Temperature	拐点温度	25°C ± 5°C		

NOTE: Please consult for other specifications 若有其它规格需求请告知

Outline Dimensions (Unit: mm) 外形尺寸

KX1040	 [UNIT: mm]
KX2060	 [UNIT: mm]
KX3080	 [UNIT: mm]

■ Part Number Guide 产品编号

KX1040	-	32.768	-	F	-	12.5	-	A	-	20	-	NS
↓		↓		↓		↓		↓		↓		↓
型号	-	标称频率	-	振荡方式	-	负载	-	工作温度	-	调整频差	-	特殊要求

‘KX’: 产品系列
‘1040’: 封装尺寸
kHz

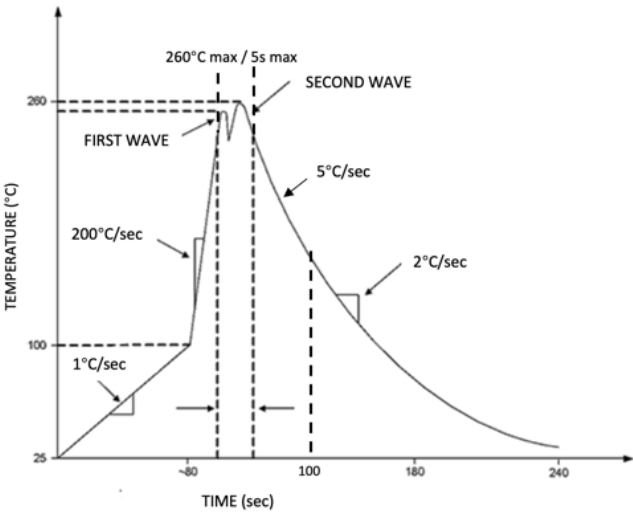
(In KHz)

F-基频

A: -10~+60°C

10 = ±10ppm
20 = ±20ppm

■ Wave Solder Profile 波峰焊



Peak Wave Temperature	最高温	260°C max
Maximum Time across Both Waves	时间差	5 second max
Maximum Preheat Ramp Rate	预热温度	1°C/second typ; 4°C/second max
Ramp-Up Rate	升温速度	~200°C/second
Ramp-Down Rate	降温速度	5°C/second max

■ Revision 版本

版本 Rev.	修改页 Revise Page	修改内容 Revise Contents	日期 Date	修改人 Reviser
0	N/A	Initial issue	2020.09.27	JZ
1.0	1	Specs update	2025.12.04	JZ