

## 晶体谐振器 Crystal Resonator: KX49S KX49U

### Feature 特征

- Lightweight and cost-effective 轻量化，具有成本优势
- Available in multiple package heights 多种封装高度选择
- High precision and frequency stability, ideal for communication systems 高精度和频率稳定性，适用于通信设备



### General Specifications 规格参考

PARAMETER	性能参数	KX49S	KX49U
Frequency Range	频率范围	3.5MHz ~ 80MHz	1.8MHz ~ 210MHz
Oscillation Mode	振荡方式	基频/泛音	
Frequency Tolerance (25°C±3°C)	调整频差	±10ppm, ±20ppm, ±30ppm (max)	
Load Capacitance	负载电容	Series or Parallel (8~32pF)	
Frequency Stability	温度频差	见下表	
Operating Temperature Range	温度范围	见下表	
Equivalent Series Resistance	谐振电阻	20~200 Ω	25~500 Ω
Drive Level	激励电平	100μW typical, 300μW max	100μW typical, 500μW max
Shunt Capacitance	静电容	5pF max	6pF max
Insulation Resistance	绝缘电阻	500MΩ min	
Storage Temperature Range	储存温度范围	-55°C to +125°C	
Aging Per Year	老化率	±3ppm/year ~ ±5ppm/year	

Frequency Stability 温度频差 VS Operating Temperature Range 温度范围

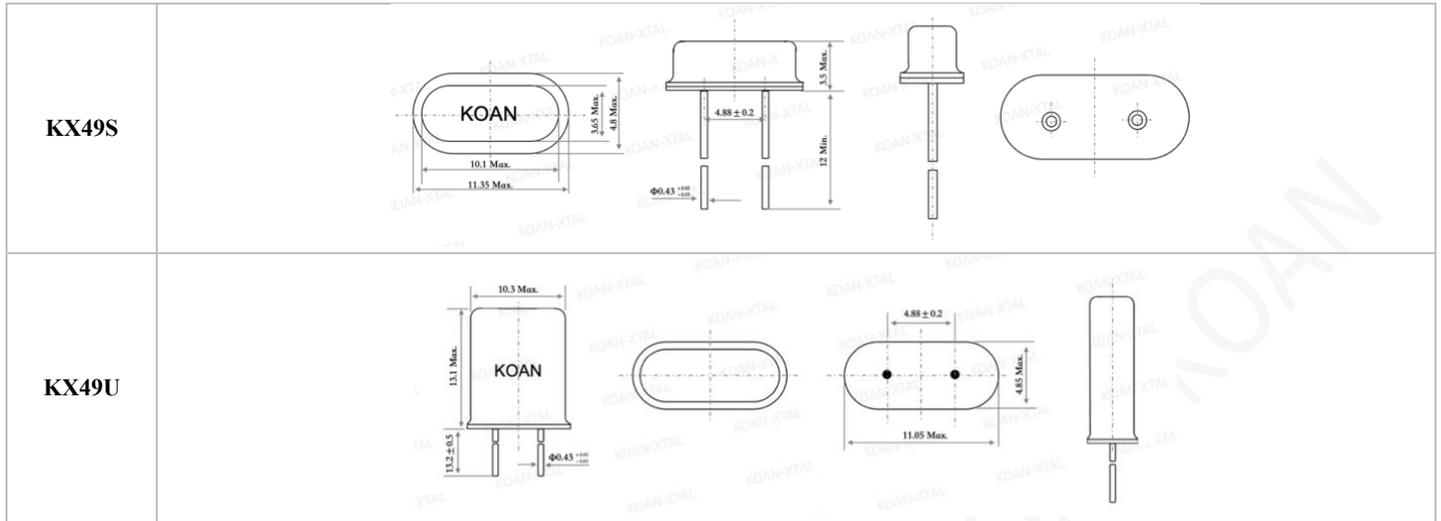
Temp. Code	Temp. \ppm	±20	±25	±30	±50	±100
B	-20~70°C	○	○	○	○	○
C	-40~85°C		○	○	○	○
E	-40~105°C				○	○
F	-55~125°C					○

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

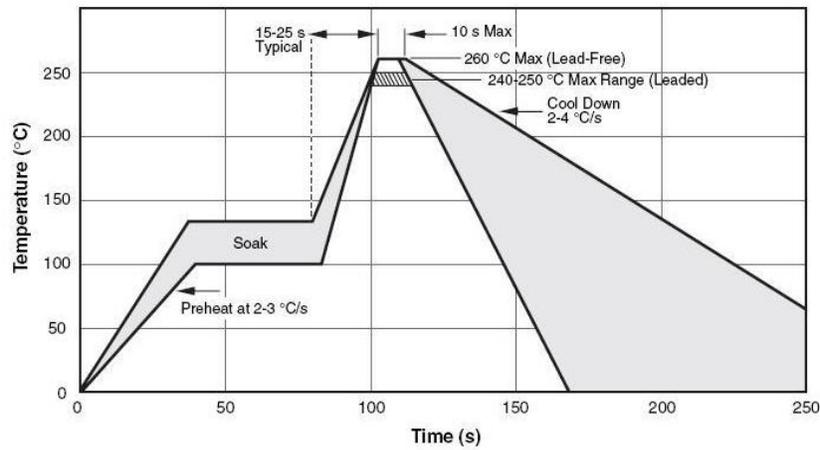
### Part Number Guide 产品编号

KX49S	-	24.576	-	F	-	20	-	C	-	30	-	30	-	NS
↓		↓		↓		↓		↓		↓		↓		↓
型号	-	标称频率	-	振荡方式	-	负载	-	工作温度	-	调整频差	-	温度频差	-	特殊要求
'KX': 产品系列		(In MHz)		F-基频 T-泛音				B: -20~+70°C C: -40~+85°C E: -40~+105°C F: -55~+125°C		10 = ±10ppm 20 = ±20ppm 30 = ±30ppm		10 = ±10ppm 20 = ±20ppm 30 = ±30ppm 50 = ±50ppm 100 = ±100ppm		

■ Outline Dimensions (Unit: mm) 外形尺寸



■ Wave Solder Profile 波峰焊



Average Ramp-up Rate	升温速度	~200°C/Second
Heating Rate during preheat	预热速度	1~2°C/second typ.; 4°C/second max
Final Preheat Temperature Ts	最终预热温度	~130°C
Peak Temperature Tp	最高温度	260°C
Time within +0°C/-5°C of actual temperature tp	实际温度时间	10 seconds
Ramp-Down Rate	降温速度	5°C/second max