

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	年化率	±3ppm/year ~ ±5ppm/year	

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

Temp. Code	Temp.\ppm	±10	±20	±30	±50	±100
B	-20~70°C	○	○	○	○	○
C	-40~85°C		○	○	○	○
D	-55~85°C				○	○
E	-55~105°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

<u>KX49S</u>	-	<u>24.576</u>	-	<u>F</u>	-	<u>20</u>	-	<u>C</u>	-	<u>30</u>	-	<u>30</u>	-	<u>NS</u>
↓		↓		↓		↓		↓		↓		↓		↓
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
‘49S’: 封装尺寸
MHz

(In MHz)

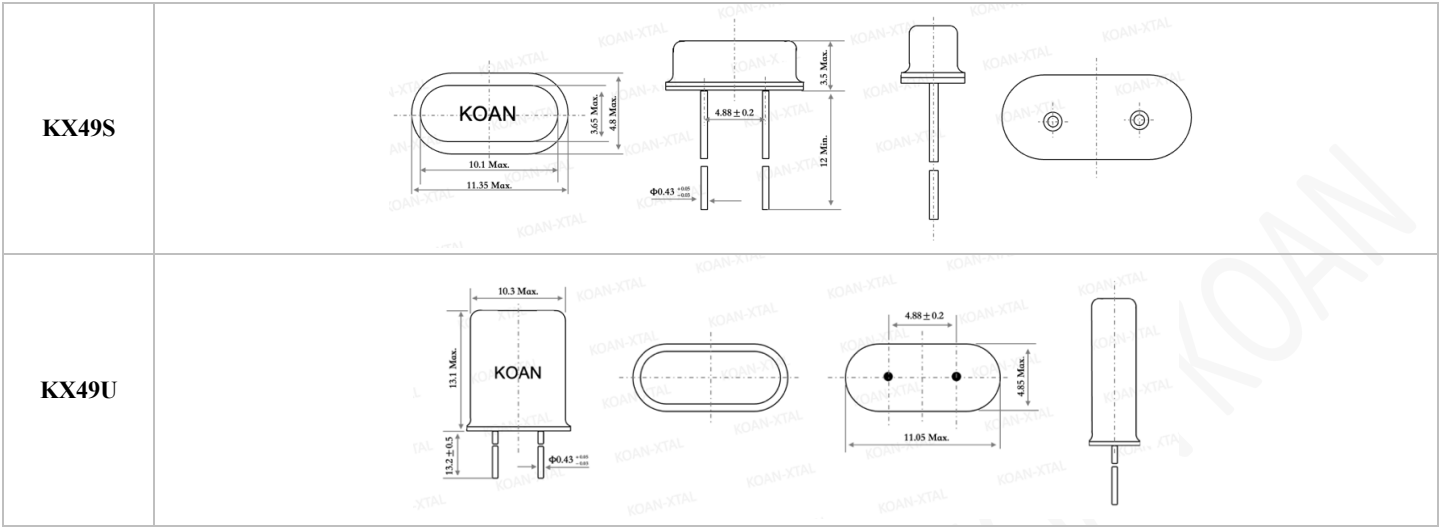
F-基频
T-泛音

B: -20~+70°C
C: -40~+85°C
D: -55~+85°C
E: -55~+105°C
F: -55~+125°C

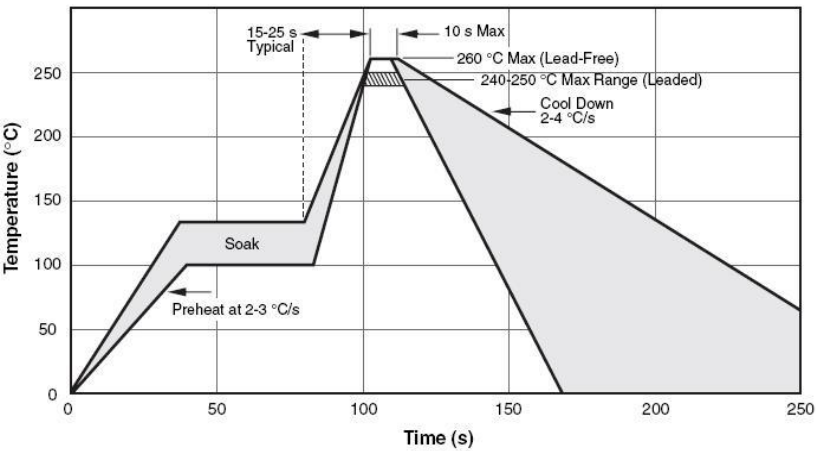
10 = ±10ppm
20 = ±20ppm
30 = ±30ppm

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

■ 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