

## Crystal Resonator (晶体谐振器) - KX25

### Applications 应用

- Frequency sources, time references, video systems, communication systems, measuring instruments, computers, embedded systems, functional module 频率源, 时间基准, 视频系统, 通信系统, 测量仪器, 计算机, 嵌入系统, 功能模块等

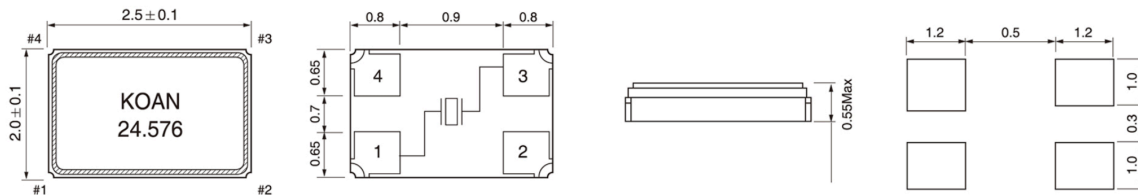


### General Specifications 规格参考

PARAMETER	性能参数	KX25
Frequency Range	频率范围	12.0MHz ~ 60.0MHz
Oscillation Mode	振荡方式	基频/泛音
Equivalent Series Resistance	谐振电阻	20~300Ω
Frequency Tolerance (25°C±3°C)	调整频差	±5ppm ~ ±30ppm
Load Capacitance	负载电容	Series or Parallel (8~32pF)
Storage Temperature Range	储存温度范围	-55°C to +125°C
Drive Level	激励电平	10μW typical, 100μW max
Shunt Capacitance	静电容	5pF max
Insulation Resistance	绝缘电阻	500MΩ min
Aging Per Year	老化率	±3ppm~±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		○	○	○	○
F	-55~105°C				○	○
H	-55~125°C					○

### Outline Dimensions (Unit: mm) 外形尺寸

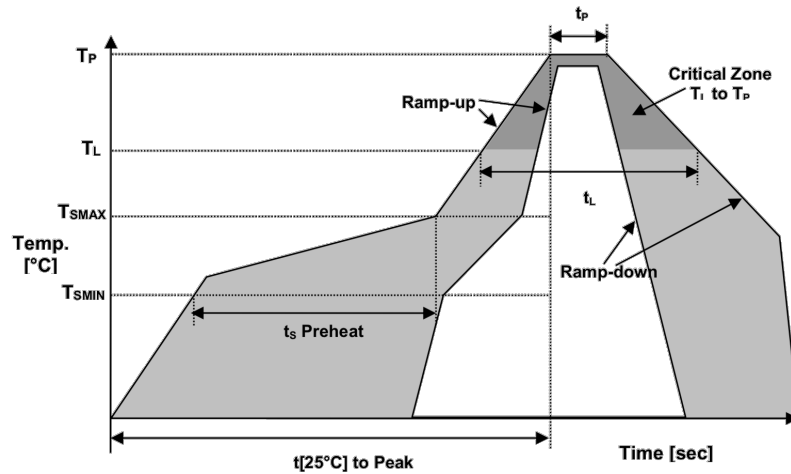


### Part Number Guide 产品编号

**KX25** - **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 '25': 封装尺寸 MHz		F-基频 T-泛音		B: -20~+70°C C: -40~+85°C F: -55~+105°C H: -55~+125°C	05 = ±5ppm 10 = ±10ppm 15 = ±15ppm 20 = ±20ppm 30 = ±30ppm	10 = ±10ppm 20 = ±20ppm 30 = ±30ppm 50 = ±50ppm 100 = ±100ppm	'NS': 特殊要求

## Reflow Profile 回流焊



Temperature Min Preheat	最低预热温度	$T_{smin}$	125°C
Temperature Max preheat	最高预热温度	$T_{smax}$	150°C
Time ( $T_{smin}$ to $T_{smax}$ )	时间差	$t_s$	30~60 sec
Temperature	温度	$T_L$	217°C
Peak Temperature	最高温	$T_p$	260 °C
Ramp-up Rate	升温速度	$R_{up}$	3°C/sec max
Ramp-down Rate	降温速度	$R_{down}$	6°C/sec max
Time within 5°C of Peak Temperature	最高温度停留时间	$t_p$	10 sec
Time t[25°C] to peak temperature	25度到最高温度时间	t[25°C] to peak	120 sec
Time	时间	$t_L$	60~150 sec