# Product Information (产品介绍)

## Clock Oscillator (时钟振荡器) - KS14S


### Applications 应用

Power equipment, program-controlled switching, automatic control, information platform, frequency source 电力设备，程控交换，自动控制，信息平台，频率源等

### General Specifications 规格参考

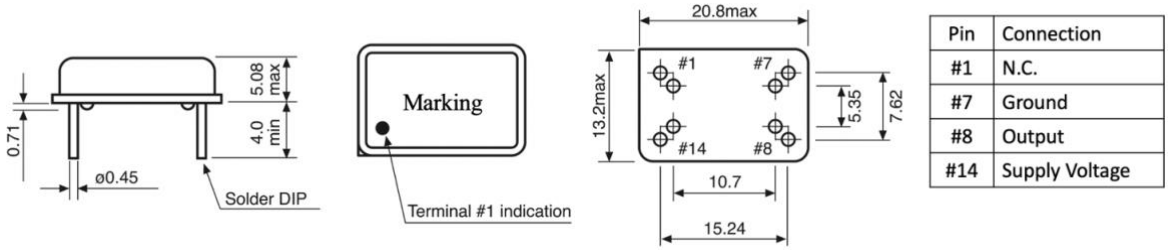
| PARAMETER | 性能参数 | 数值 | |
|---|---|---|---|
| Frequency Range | 频率范围 | 10~200MHz | 10.0~156.250MHz |
| Supply Voltage | 供给电压 | +3.3V(±5%) | +5.0V (±10%) |
| Output Logic | 输出波形 | True Sine Wave 正弦波 | |
| Frequency Tolerance | 调整频差 | ±30ppm max | |
| Frequency Stability | 温度频差 | 见下表 | |
| Operating Temperature Range | 温度范围 | 见下表 | |
| Current Consumption | 工作电流 | 20mA max | 40mA max |
| Output Level | 输出电平 | Standard: +3.0dBm min<br>Tolerance: ±1dBm<br>Maximum Power: +7dBm | Standard: +5.0dBm min<br>Tolerance: ±1dBm<br>Maximum Power: +13dBm |
| Harmonics | 谐波抑制 | <-30dBc | <-25dBc |
| Start-up Time | 起振时间 | 6.0ms typ. | 2.0ms typ. |
| Storage Temperature Range | 储存温度范围 | -55°C ~ +125°C | |
| Aging Per Year | 年老化率 | ±5ppm/year max | |

| 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

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

KS14S




| Pin | Connection |
|---|---|
| #1 | N.C. |
| #7 | Ground |
| #8 | Output |
| #14 | Supply Voltage |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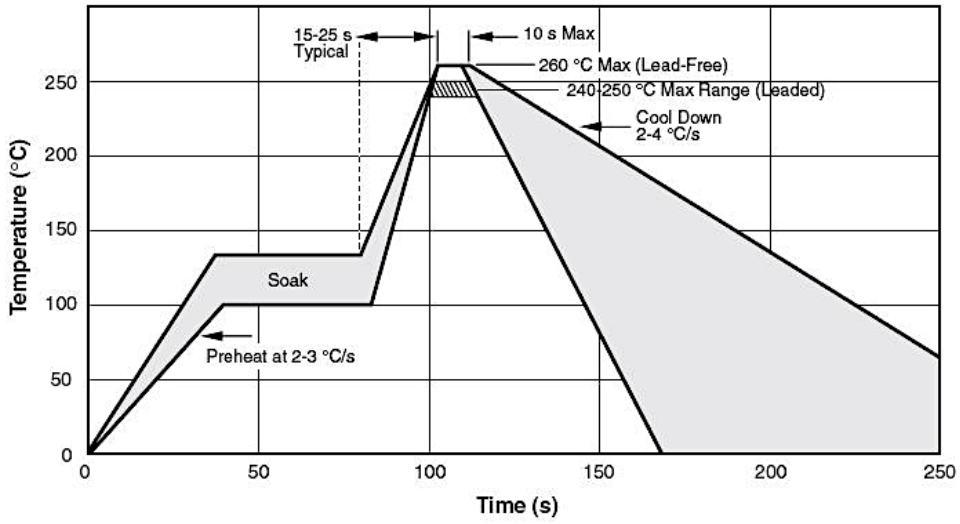
## Part Number Guide 产品编号

| KS14S | - | 20.000 | - | 33 | - | C | - | 30 | - | |
|---|---|---|---|---|---|---|---|---|---|---|
| **封装** | - | **标称频率** | - | **工作电压** | - | **工作温度** | - | **温度频差** | - | **特殊要求** |
| **'KS'**: 产品系列<br>**'14'**: 封装尺寸<br>DIP-14<br>**'S'**:输出波形<br>TRUE SINE | | | | 33=3.3V<br>50=5.0V | | B: -20~+70°C<br>C: -40~+85°C<br>D: -55~+85°C<br>E: -55~+105°C<br>F: -55~+125°C | | 10 = ±10ppm<br>20 = ±20ppm<br>30 = ±30ppm<br>50 = ±50ppm<br>100 = ±100ppm | | NS=特殊要求 |

## 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 typical; 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<br>Rev. | 修改页<br>Revise Page | 修改内容<br>Revise Contents | 日期<br>Date | 修改人<br>Reviser |
|---|---|---|---|---|
| 0 | N/A | Initial issue | 2021.12.27 | JH |