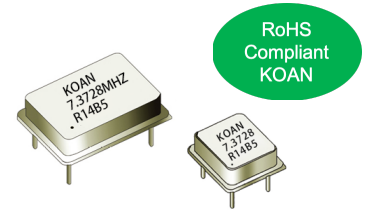


Clock Oscillator (时钟振荡器) - KS08 KS14

Applications 应用

Computer control, railway measurement and control, intelligent systems, instrument, frequency sources 电脑控制, 铁路测控, 智能系统, 仪器仪表, 频率源等



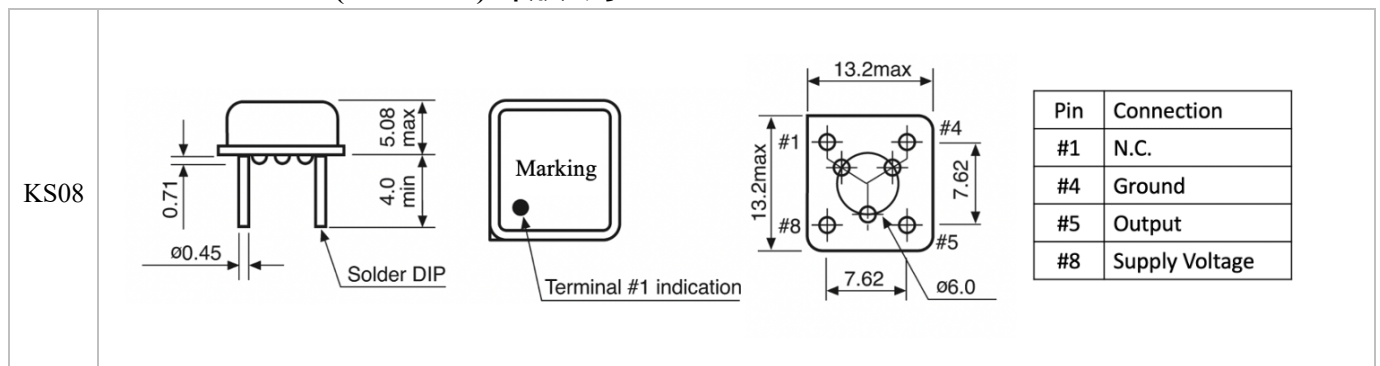
General Specifications 规格参考

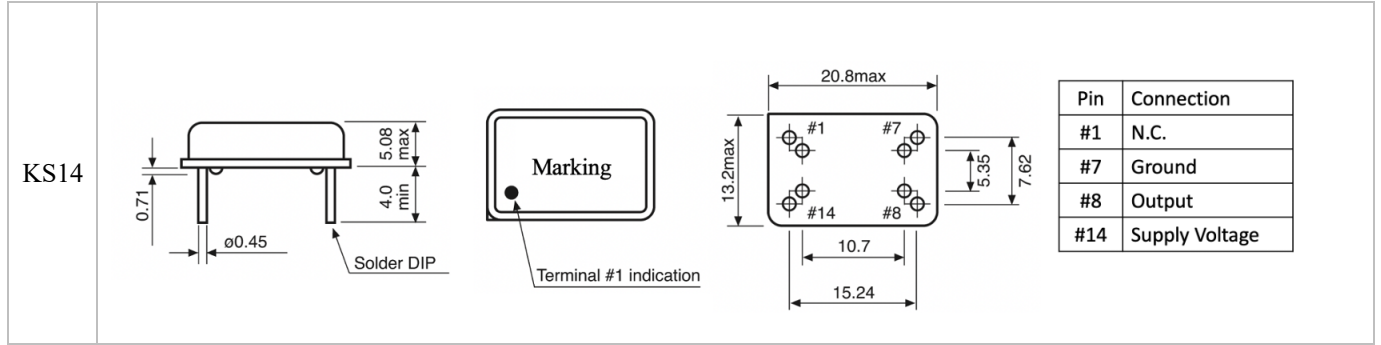
| PARAMETER | 性能参数 | KS08 KS14 | |
|-----------------------------|--------|--------------------|---------------|
| Frequency Range | 频率范围 | 25KHz~200MHz | 200KHz~125MHz |
| Supply Voltage | 供给电压 | +3.3V (±10%) | +5.0V(±10%) |
| Output Logic | 输出波形 | CMOS | |
| Frequency Tolerance | 调整频差 | ±5ppm ~ ±30ppm | |
| 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 | 40mA max | |
| Output Load | 输出负载 | 15pF | |
| Start-up Time | 起振时间 | 5ms typ.; 10ms max | |
| Duty Cycle | 占空比 | 45~55% | |
| Rise & Fall Time | 上升下降时间 | 3ns typ.; 5ns max | |
| Output Logic High "1" | 输出电平 高 | 0.9Vdd min | |
| Output Logic Low "0" | 输出电平 低 | 0.1Vdd max | |
| Storage Temperature Range | 储存温度范围 | -55°C ~ +125°C | |
| Aging Per Year | 年老化率 | ±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 | | ○ | ○ | ○ | ○ |
| 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

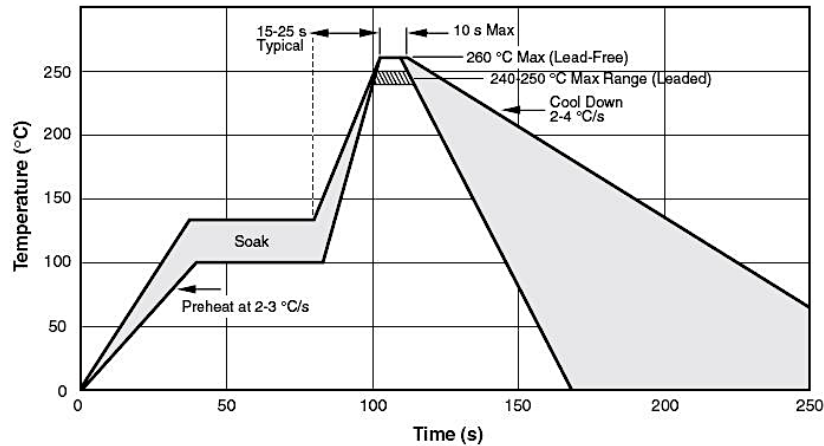




Part Number Guide 产品编号

| | | | | | | | | | | |
|-----------|---|--------|---|--------------------|---|--|---|---|---|---------|
| KS14 | - | 7.3728 | - | 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 | | | | 33=3.3V 50=5.0V | | 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 50 = ±50ppm 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 Rev. | 修改页 Revise Page | 修改内容 Revise Contents | 日期 Date | 修改人 Reviser |
|---------|-----------------|----------------------|------------|-------------|
| 0 | N/A | Initial issue | 2021.12.27 | JH |
| 1.0 | 1 | Specs Update | 2024.3.2 | JZ |