

Clock Oscillator (时钟振荡器) - KJ326D

Feature 特征

- Low phase jitter 0.6ps 低相位抖动
- Low current consumption 24mA for 622.080MHz @ 3.3V 低电流消耗



RoHS
Compliant
KOAN

Applications 应用

- Mobile communications, radar navigation, digital products, HD monitoring, precision instruments 移动通信, 雷达导航, 数码产品, 高清监控, 精密仪器等

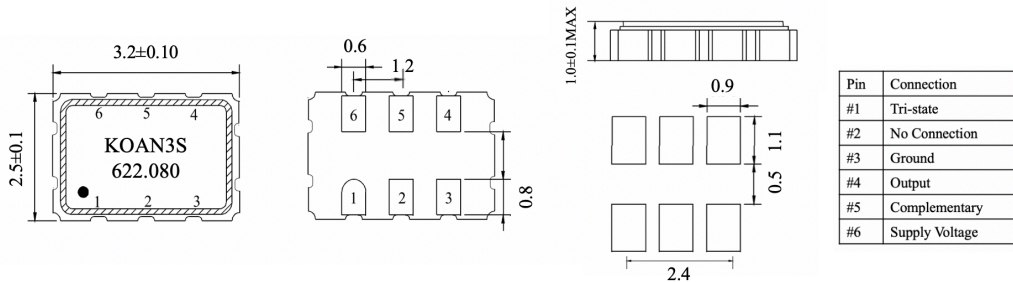
General Specifications 规格参考

| PARAMETER | 性能参数 | KJ326D |
|---------------------------|--------|--------------------------------------|
| Frequency Range | 频率范围 | 10.0MHz ~ 1.45GHz |
| Supply Voltage | 供给电压 | +2.5V/3.3V (±10%) |
| Output Logic | 输出波形 | LVDS |
| Output Load | 输出负载 | 100Ω between output and comp. output |
| Frequency Tolerance | 调整频差 | ±5ppm ~ ±30ppm |
| Current Consumption | 工作电流 | 28mA max |
| Output Logic High "1" | 输出电平 高 | 1.4V typ. 1.6V max |
| Output Logic Low "0" | 输出电平 低 | 1.1V typ. 0.9V min |
| Integrated Phase Jitter | 抖动 | 0.6ps. typical (12KHz~20MHz) |
| Rise & Fall Time | 上升下降时间 | 0.5ns max |
| Start-up Time | 起振时间 | 10ms max |
| Duty Cycle | 占空比 | 45~55% |
| Aging Per Year | 老化化率 | ±3ppm~±5ppm/year |
| Storage Temperature Range | 储存温度范围 | -55°C ~ +125°C |

| 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 | -20~105°C | | | ○ | ○ | ○ |
| E | -40~105°C | | | | ○ | ○ |
| F | -55~105°C | | | | | ○ |
| G | -20~125°C | | | | | ○ |

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

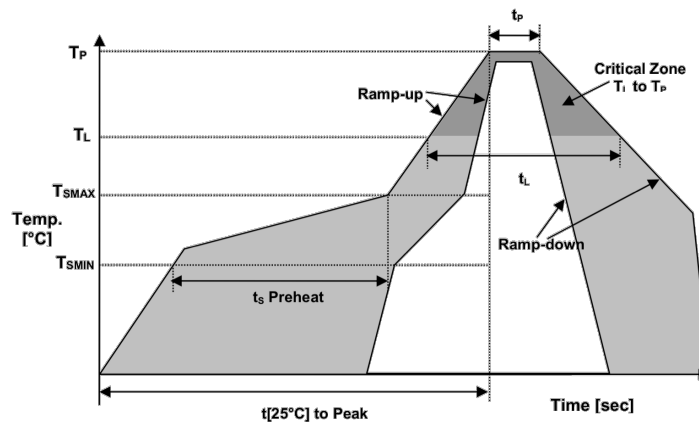
Outline Dimensions (Unit: mm) 外形尺寸



Part Number Guide 产品编号

| <u>KJ326D</u> | - | <u>622.080</u> | - | <u>33</u> | - | <u>C</u> | - | <u>30</u> | - | <u>NS</u> |
|--|---|----------------|---|--------------------|---|--|---|---|---|-----------|
| ↓ | | ↓ | | ↓ | | ↓ | | ↓ | | ↓ |
| 型号 | - | 标称频率 | - | 工作电压 | - | 工作温度 | - | 温度频差 | - | 特殊要求 |
| 'KJ':产品系列 J=低抖动 '326':封装尺寸 SMD 3.2x2.5mm 6 pad 'D':输出波形 LVDS | | (In MHz) | | 25=2.5V 33=3.3V | | B: -20~+70°C C: -40~+85°C D: -20~+105°C E: -40~+105°C F: -55~+105°C G: -20~+125°C | | 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} | 150°C |
| Temperature Max preheat | 最高预热温度 | T_{smax} | 200°C |
| Time (T_{smin} to T_{smax}) | 时间差 | T_s | 60~120 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 | 30 sec |
| Time $t[25°C]$ to peak temperature | 25度到最高温度时间 | $t[25°C]$ to peak | 480 sec |
| Time | 时间 | t_L | 60~150 sec |