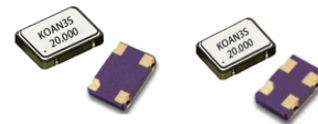


时钟振荡器 Clock Oscillator: KJ25 KJ32 KJ50 KJ70

■ Feature 特征

- Ultra-low phase noise 48fsec (RMS 12KHz~20MHz) at 3.3V 超低相位噪声
- Miniature package for space-saving designs 小型封装，节省空间
- Available in multiple voltage options to suit different system requirements 多电压选择，满足不同系统需求



■ General Specifications 规格参考

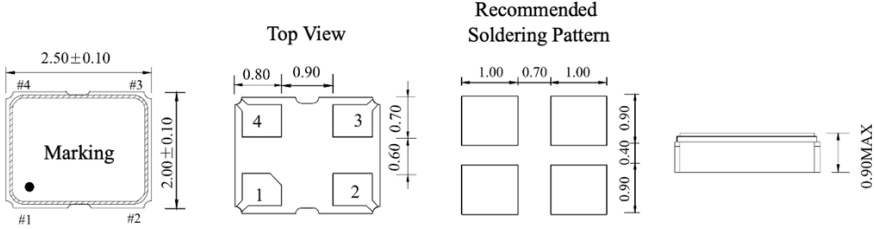
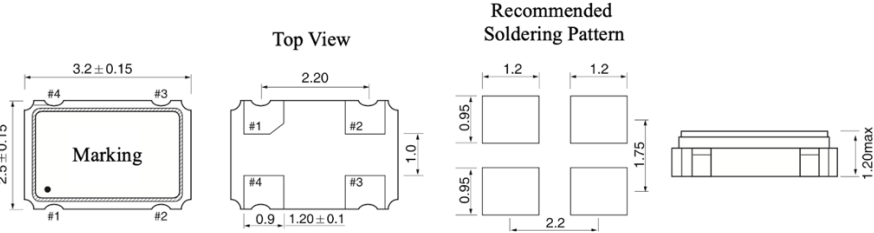
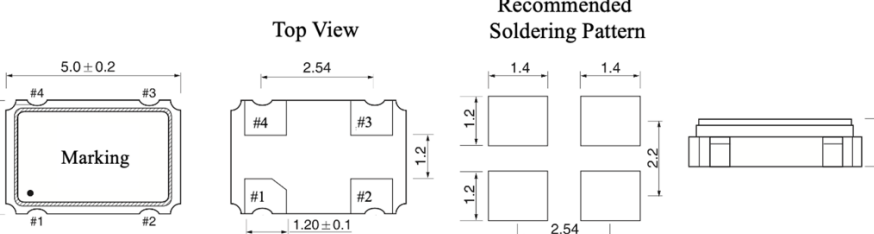
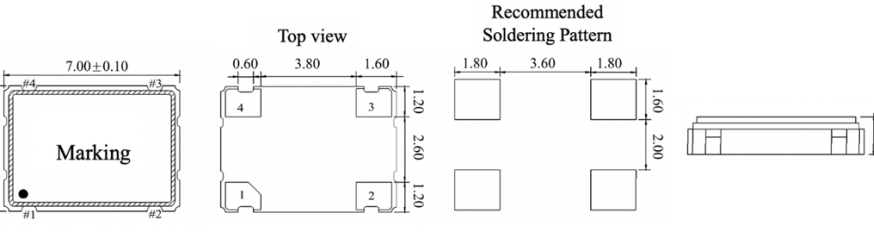
PARAMETER	性能参数	KJ25 KJ32 KJ50 KJ70
Frequency Range	频率范围	20MHz ~ 50MHz
Supply Voltage	供给电压	+1.8V/2.5V/3.3V (±10%)
Output Logic	输出波形	CMOS
Frequency Tolerance	调整频差	±5ppm ~ ±30ppm
Frequency Stability	温度频差	见下表
Operating Temperature Range	温度范围	见下表
Current Consumption	工作电流	10mA max
Output Load	输出负载	15pF
Start-up Time	起振时间	1ms typ.; 5ms max
Duty Cycle	占空比	45~55%
Rise & Fall Time	上升下降时间	5ns max (typ. @1.8V)
Output Logic High "1"	输出电平 高	0.9Vdd min
Output Logic Low "0"	输出电平 低	0.1Vdd max
Output Enable/Disable	启动/禁用时间	Enable: 1ms max.; Disable: 200ns max.
RMS Jitter [49.152MHz@3.3V]	抖动	48 fsec typ.; 300 fsec max [12KHz~20MHz]
Phase Noise[49.152MHz@3.3V]	相位噪声	-91dBc@10Hz; -126dBc@100Hz [49.152MHz@3.3V]
Storage Temperature Range	储存温度范围	-55°C ~ +125°C
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	±20	±25	±30	±50	±100
B	-20~70°C	○	○	○	○	○
C	-40~85°C		○	○	○	○
E	-40~105°C				○	○
F	-40~125°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

KJ25																					
KJ32																					
KJ50																					
KJ70																					
	<table><tr><th>Pin</th><th>Connection</th></tr><tr><td>#1</td><td>Output Enable (OE)</td></tr><tr><td>#2</td><td>Ground</td></tr><tr><td>#3</td><td>Output</td></tr><tr><td>#4</td><td>Supply Voltage</td></tr></table> <table><tr><th colspan="2">Enable/Disable Function</th></tr><tr><th>Input (#1)</th><th>Output (#3)</th></tr><tr><td>Open</td><td>Enable</td></tr><tr><td>V_{IH} ≥70%V_{dd}</td><td>Enable</td></tr><tr><td>V_{IL} ≤30%V_{dd}</td><td>Disable</td></tr></table>	Pin	Connection	#1	Output Enable (OE)	#2	Ground	#3	Output	#4	Supply Voltage	Enable/Disable Function		Input (#1)	Output (#3)	Open	Enable	V _{IH} ≥70%V _{dd}	Enable	V _{IL} ≤30%V _{dd}	Disable
Pin	Connection																				
#1	Output Enable (OE)																				
#2	Ground																				
#3	Output																				
#4	Supply Voltage																				
Enable/Disable Function																					
Input (#1)	Output (#3)																				
Open	Enable																				
V _{IH} ≥70%V _{dd}	Enable																				
V _{IL} ≤30%V _{dd}	Disable																				

Part Number Guide 产品编号

KJ25	-	20.000	-	33	-	C	-	30	-	NS
↓		↓		↓		↓		↓		↓
型号	-	标称频率	-	工作电压	-	工作温度	-	温度频差	-	特殊要求

‘KJ’: 低抖动系列

‘25’:封装尺寸

SMD2.5x2.0mm

(In MHz)

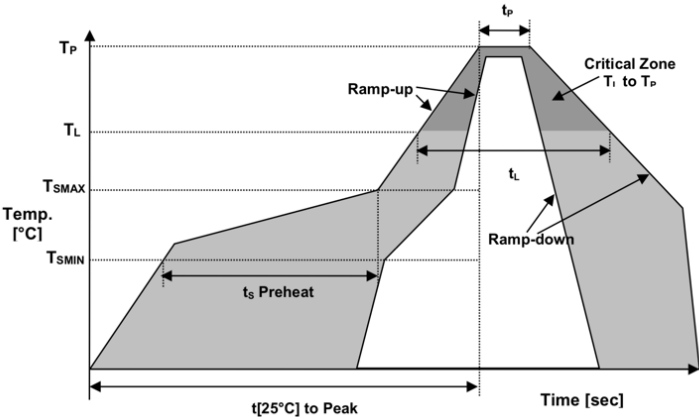
18=1.8V
25=2.5V
33=3.3V

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