

时钟振荡器 Clock Oscillator: KJ326D KJ506D KJ706D

Feature 特征

- Low current consumption 24mA typical at 622.080Mhz @ 3.3V 低功耗设计
- Wide frequency range up to 1.5GHz 频率范围宽, 最高 1.5GHz
- Ultra-low phase jitter 0.6ps RMS (12kHz to 20MHz), ensures clean, high-integrity signals 相位抖动极低, 保证信号清晰可靠
- LVDS differential output, optimized for high-speed, low-noise applications LVDS 差分输出, 适用于高速, 低噪声应用



General Specifications 规格参考

PARAMETER	性能参数	KJ326D KJ506D KJ706D	
Frequency Range	频率范围	100MHz ~ 250MHz	150MHz ~ 1.5GHz
Supply Voltage	供给电压	+2.5V/3.3V (±10%)	
Output Logic	输出波形	LVDS	
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	22mA typ.; 30mA max	20~68mA
Output Load	输出负载	100Ω between output and comp. output	
Start-up Time	起振时间	1ms typ.; 5ms max	5ms typ.; 10ms max
Duty Cycle	占空比	45~55%	
Rise & Fall Time	上升下降时间	0.8ns max	
Output Enable/Disable Time	启动/禁用时间	Enable: 10ms max Disable: 0.2μs max	Enable: 200ns max Disable: 50ns 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	
RMS Jitter(12KHz~20MHz)	抖动	50fs typ; 300fs max	0.6ps typ.
Storage Temperature Range	储存温度范围	-55°C ~ +125°C	
Aging Per Year	年化率	±3ppm ~ ±5ppm/year	

Frequency Stability 温度频差 VS Operating Temperature Range 温度范围

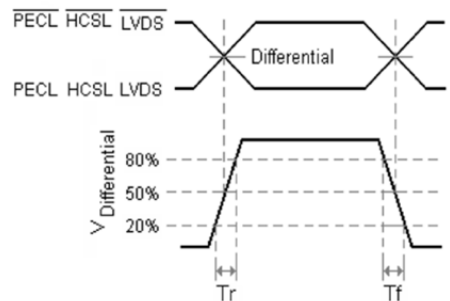
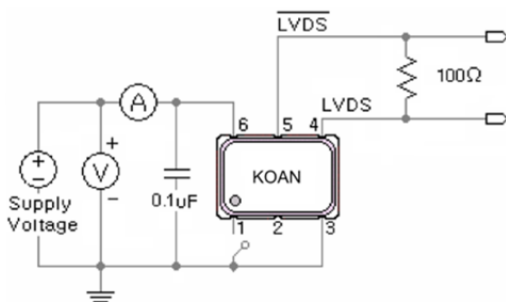
Temp. Code	Temp. \ppm	±10	±20	±30	±50	±100
B	-20~70°C	○	○	○	○	○
C	-40~85°C		○	○	○	○
D	-55~85°C				○	○
E	-55~105°C				○	○
F	-55~125°C					○

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

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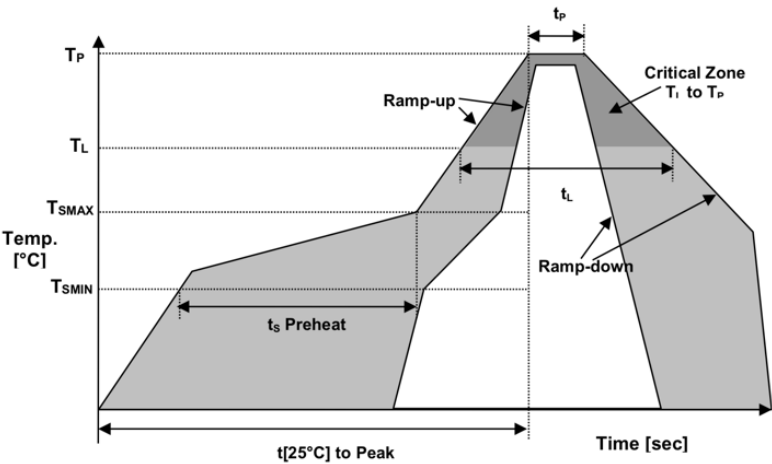
Test Circuit and Output Waveforms 测试电路图及输出波形



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’: 低抖动晶振 ‘326’:封装尺寸 SMD 3.2x2.5mm 6 pad ‘D’: 输出波形 LVDS						B: -20~+70℃		10 = ±10ppm		‘NS’:特殊要求
						C: -40~+85℃		20 = ±20ppm		
						D: -55~+85℃		30 = ±30ppm		
						E: -55~+105℃		50 = ±50ppm		
						F: -55~+125℃		100 = ±100ppm		
		(In MHz)		25=2.5V 33=3.3V						

Reflow Profile 回流焊



Temperature Min Preheat	最低预热温度	Tsmin	150°C
Temperature Max preheat	最高预热温度	Tsmax	200°C
Time (Tsmin to Tsmax)	时间差	Ts	60~120 sec
Temperature	温度	TL	217°C
Peak Temperature	最高温	Tp	260 °C
Ramp-up Rate	升温速度	Rup	3°C/sec max
Ramp-down Rate	降温速度	Rdown	6°C/sec max
Time within 5°C of Peak Temperature	最高温度停留时间	tp	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	tL	60~150 sec

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	2	Pin description	2022.06.20	JZ
1.1	1	Specs update	2025.12.04	JZ