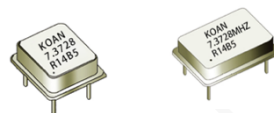


时钟振荡器 Clock Oscillator: KS08 KS14 KS14S

Feature 特征

- Wide frequency range and stable output performance 频率范围广，输出稳定
- Ideal for high-performance clocking in CPUs, GPUs, and multimedia systems 适用多媒体系统
- True sine wave output suitable for low-noise and precision timing applications 正弦波输出适用于低噪声高精度时序需求



General Specifications 规格参考

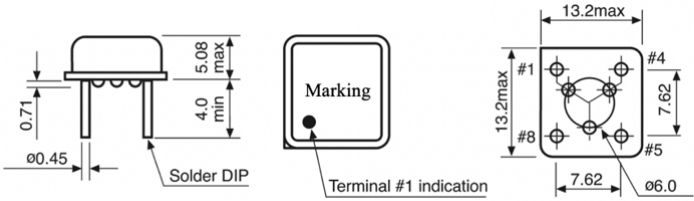
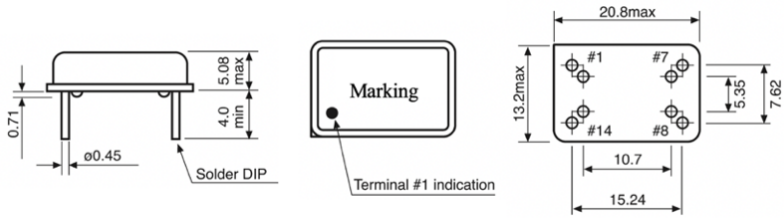
PARAMETER	性能参数	KS08 KS14		KS14S	
Frequency Range	频率范围	25KHz~200MHz	200KHz~125MHz	10~200MHz	10~156.25MHz
Supply Voltage	供给电压	+3.3V (±10%)	+5.0V(±10%)	+3.3V (±5%)	+5.0V(±10%)
Output Logic	输出波形	CMOS		True Sine Wave	
Frequency Tolerance	调整频差	±5ppm ~ ±30ppm		±30ppm	
Frequency Stability	温度频差	见下表		见下表	
Operating Temperature Range	温度范围	见下表		见下表	
Current Consumption	工作电流	40mA max		20mA max	40mA max
Output Load	输出负载	15pF		--	
Start-up Time	起振时间	5ms typ.; 10ms max		6ms typ.	2ms typ.
Duty Cycle	占空比	45~55%		45~55%	
Rise & Fall Time	上升下降时间	3ns typ.; 5ns max		3ns typ.; 5ns max	
Output Logic High "1" Output Logic Low "0"	输出电平 高 输出电平 低	0.9Vdd min 0.1Vdd max		Standard: +3.0dBm min Tolerance: ±1dBm Maximum Power: +7dBm	Standard: +5.0dBm min Tolerance: ±1dBm Maximum Power: +13dBm
Harmonics	谐波抑制	--		< -30dBc	< -25dBc
Storage Temperature Range	储存温度范围	-55°C ~ +125°C		-55°C ~ +125°C	
Aging Per Year	老化率	±3ppm ~ ±5ppm/year		±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

KS08	 <table><thead><tr><th>Pin</th><th>Connection</th></tr></thead><tbody><tr><td>#1</td><td>N.C.</td></tr><tr><td>#4</td><td>Ground</td></tr><tr><td>#5</td><td>Output</td></tr><tr><td>#8</td><td>Supply Voltage</td></tr></tbody></table>	Pin	Connection	#1	N.C.	#4	Ground	#5	Output	#8	Supply Voltage
Pin	Connection										
#1	N.C.										
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KS14 KS14S	 <table><thead><tr><th>Pin</th><th>Connection</th></tr></thead><tbody><tr><td>#1</td><td>N.C.</td></tr><tr><td>#7</td><td>Ground</td></tr><tr><td>#8</td><td>Output</td></tr><tr><td>#14</td><td>Supply Voltage</td></tr></tbody></table>	Pin	Connection	#1	N.C.	#7	Ground	#8	Output	#14	Supply Voltage
Pin	Connection										
#1	N.C.										
#7	Ground										
#8	Output										
#14	Supply Voltage										

■ Part Number Guide 产品编号

KS14S	-	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

‘KS’: 非差分系列

‘14’: 封装尺寸

DIP14

‘S’: 输出波形

True Sine

(In MHz)

25=2.5V

33=3.3V

B: -20~+70°C

C: -40~+85°C

D: -55~+85°C

E: -55~+105°C

F: -55~+125°C

10 = ±10ppm

20 = ±20ppm

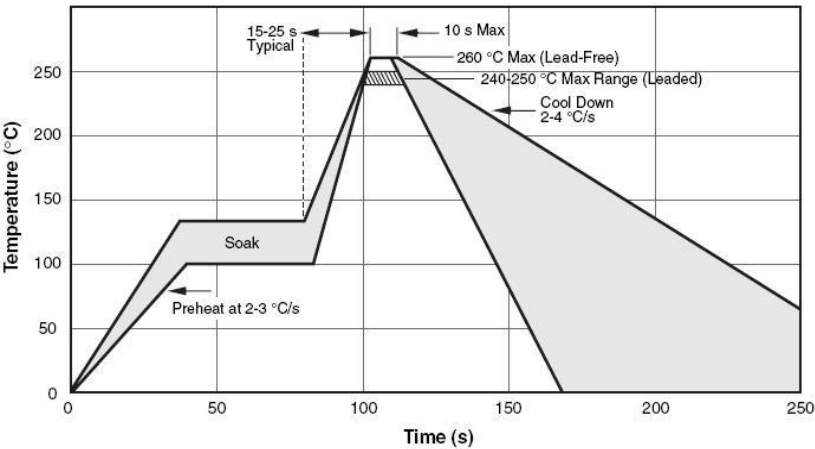
30 = ±30ppm

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 typ.; 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	JZ