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

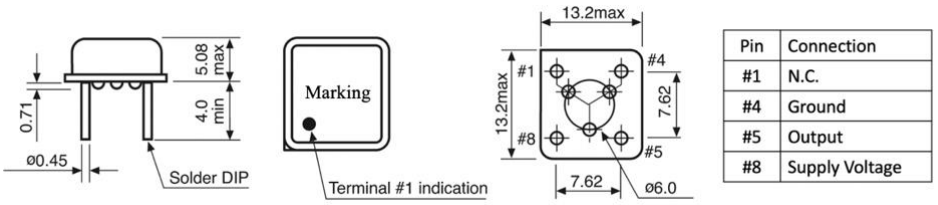
PARAMETER	性能参数	KS08 KS14		KS14S	
Frequency Range	频率范围(Hz)	25k~200M	200k~125M	10~200M	10~156.25M
Supply Voltage	供给电压	+3.3V (±10%)	+5.0V (±10%)	+3.3V (±5%)	+5.0V (±10%)
Output Logic	输出波形	CMOS		True Sine Wave	
Frequency Tolerance	调整频差	±5ppm ~ ±30ppm		±30ppm	
Frequency Stability	温度频差	见下表			
Operating Temp. Range	温度范围	见下表			
Current Consumption	工作电流	40mA max.		40mA max.	
Output Load	输出负载	15pF		--	
Start-up Time	起振时间	10ms max.		10ms max.	
Duty Cycle	占空比	45~55% (f≤40MHz); 40~60% (f > 40MHz)		--	
Rise & Fall Time	上升下降时间	5ns max.		--	
Output Logic High "1" Low "0"	输出电平 高 输出电平 低	0.9Vdd min. 0.1Vdd max.	0.9Vdd min. 0.1Vdd max.	Standard: +3.0dBm min. Tolerance: ±1dBm Maximum Power	Standard: +3.0dBm min. Tolerance: ±1dBm Maximum Power: +7dBm
Harmonics	谐波抑制	--	--	< -30dBc	< -25dBc
Storage Temp. 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	±20	±25	±30	±50	±100
B	-20~70°C	○	○	○	○	○
C	-40~85°C		○	○	○	○
E	-40~105°C				○	○
F	-55~125°C					○

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

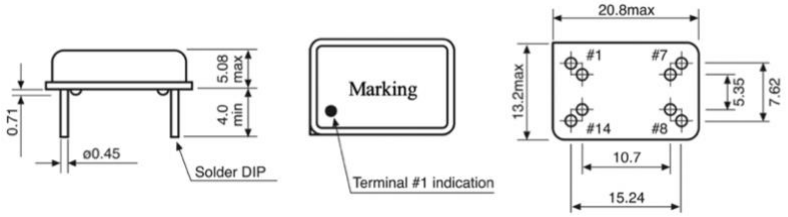
■ Outline Dimensions (Unit: mm) 外形尺寸

KS08



Pin	Connection
#1	N.C.
#4	Ground
#5	Output
#8	Supply Voltage

KS14
KS14S

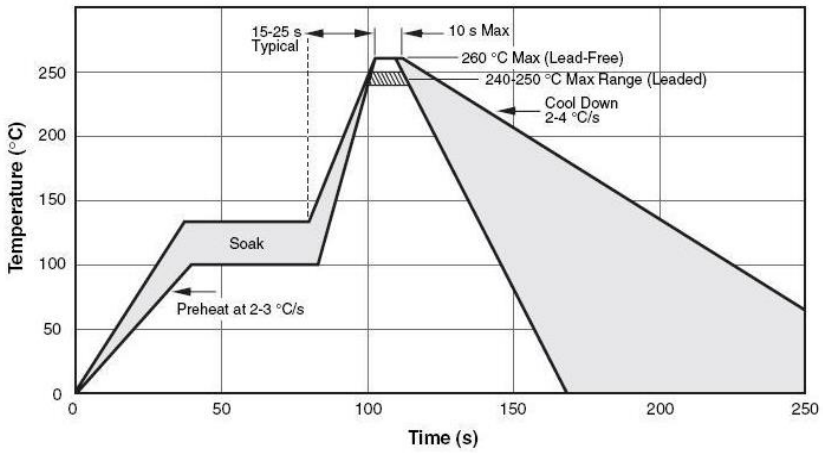


Pin	Connection
#1	N.C.
#7	Ground
#8	Output
#14	Supply Voltage

■ 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 E: -40~+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