压控振荡器 Voltage Controlled Crystal Oscillator: KV14S

Feature 特征

- VCXO allow for precise frequency tuning over typical range ±80ppm min by adjusting the voltage on the control (Vc) pin 压控晶振可以通过调节控制引脚上的电压进行微调，频率微调范围为±80ppm min.
- True sine wave output for low distortion and superior signal integrity 正弦波输出有极低失真和良好信号完整性
- Ideal for analog modulation system, RF circuits, and precision timing application 适用于模拟调制系统，射频电路，高精度定时应用

General Specifications 规格参考

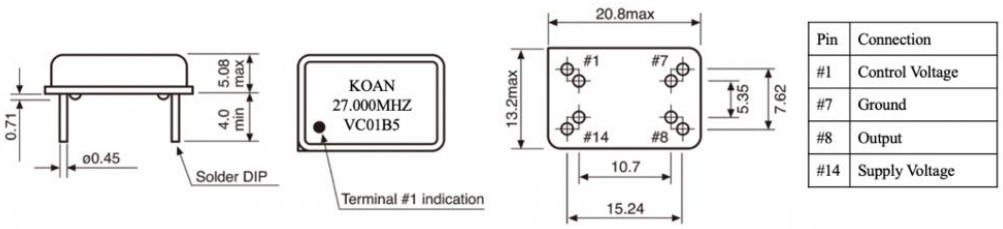
PARAMETER	性能参数	KV14S	
Frequency Range	频率范围	10.0~250.0MHz	10.0~156.0MHz
Supply Voltage	供给电压	+3.3V(±5%)	+5.0V(±10%)
Center Control Voltage	中心控制电压	1.65Vdc (0.3V~3.0V)	2.5Vdc (0.5V~4.5V)
Output Logic	输出波形	True Sine	
Output Load	输出负载	50Ω	
Harmonics	谐波抑制	< -30dBc (Frequency dependent)	
Frequency Tolerance	调整频差	±20ppm	
Current Consumption	工作电流	40mA max.	
Output Level	输出级别	+3dBm min.	
Frequency Pulling Range	压控范围	±80ppm min.	
Phase Noise (e.g.125.0MHz)	相位噪声	-75dBc/Hz@10Hz; -128dBc/Hz@100KHz	
Input Impedance	输入电阻	> 10KΩ	
Start-up Time	起振时间	10ms max.	
Linearity	非线性误差	±10% max.	
Modulation Bandwidth (-3dB)	调制宽带	10KHz min.	
Aging Per Year	年老化率	±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	±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

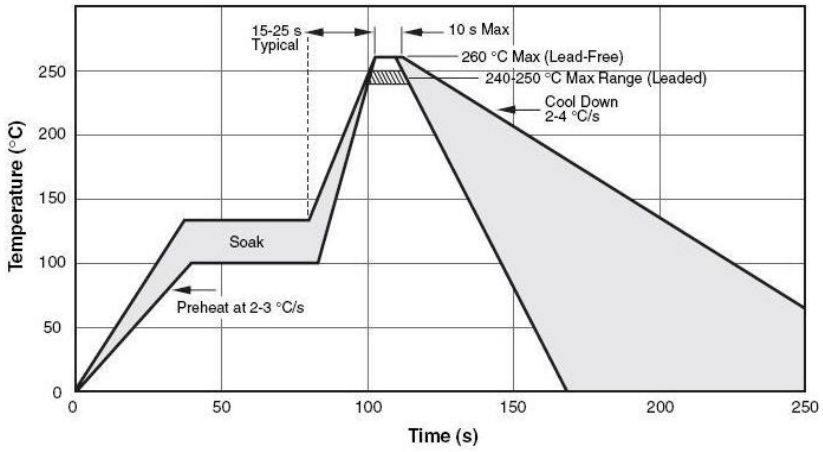
KV14S



■ Part Number Guide 产品编号

KV14S	-	27.000	-	80	-	33	-	C	-	30	-	NS
↓		↓		↓		↓		↓		↓		↓
型号	-	标称频率	-	压控范围	-	工作电压	-	工作温度	-	温度频差	-	特殊要求
'KV': 压控系列 **'14':** 封装尺寸 DIP-14 **'S'**: 输出波形 True Sine		(In MHz)		80=±80ppm 100=±100ppm 150=±150ppm 200=±200ppm		33=3.3V 50=5.0V		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