

恒温振荡器 Oven Controlled Crystal Oscillator: KO0907T

■ Feature 特征

- Ultra-Compact 9x7mm SMD package for surface mounting 小尺寸贴片封装, 适合表面贴装设计
- Exceptional frequency stability $\pm 10 \sim \pm 50$ ppb from -40 to $+85^\circ\text{C}$ 出色的频率稳定性
- Voltage control function standards 内置标准压控功能
- Low phase noise and long-term aging performance 低相位噪声, 长期老化性能优异
- HCMOS provide standard logic levels, fast switching, low power consumption HCMOS 特点有标准逻辑电平, 快速切换, 低功耗
- Ideal for precision timing in communication, instrumentation, and industrial control 适用于通信, 测试仪器, 工业控制中的高精度时钟



■ General Specifications 规格参考

PARAMETER	性能参数	KO0907T				
Supply Voltage	工作电压	+3.3V±5%				
Output Waveform	输出波形	HCMOS				
Frequency Range	频率范围	5~40MHz				
Standard Frequency	通用频率	10, 12.8, 13, 19.2, 20, 25.6, 30.72, 38.88MHz				
Output Load	输出负载	15pF (50pF max)				
Output Logic	输出电平	High: ≥0.9Vdd; Low: ≤0.1Vdd				
Initial Calibration Tolerance	基准温度初始精度	±500ppb max				
Voltage Control	压控范围	Vcon = +1.5±1.3V 或 固定				
Frequency Adjustment	频率调整	±5.0ppm min				
EFC Linearity	非线性误差	正向±10% max.				
Power Dissipation	功耗	0.6W max at steady-state@25°C; 1.5W max at turn-on				
Frequency Stability 频率稳定性						
Operating Temperature Range	温度范围	-40~+85°C				
Frequency Stability	温度频差	±10~±50ppb				
Load Change	负载变化	±10ppb max				
Voltage Change	电压变化	±10ppb max				
Warm-up Time	预热时间	3 minute max. within ±50ppb of its reference frequency.				
Aging	老化率	±5ppb per day; ±300ppb per year				
Duty Cycle	占空比	45~55%				
Rise & Fall Time	上升下降时间	7 ns max.				
Phase Noise @10MHz	相位噪声 Max (dBc/Hz)	-70	-100	-130	-145	-155
		1Hz	10Hz	100Hz	1KHz	>10KHz
Storage Temperature Range	储存温度范围	-55°C~+125°C				
Shock	冲击	2000 G's, 0.3ms 1/2sine				
Vibration	振动	10 to 2000 Hz/10G's				

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

KO0907T

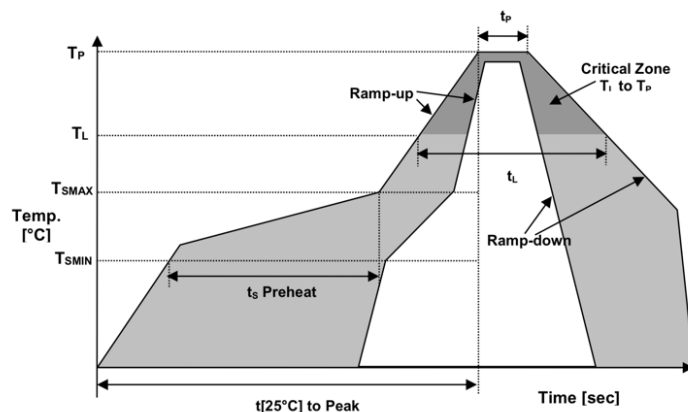
Top View
9.7
7.5
KOAN
20.00MHZ
OCJ04Y5
1 2 3 4

Bottom View
6.0
4.0
Φ1.5
1 2 3 4

Side View
9.7
4.0

Pin	Connection
#1	Voltage Control / NC
#2	Ground
#3	Output
#4	Supply Voltage

■ 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

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0	N/A	Initial issue	2021.01.22	JH