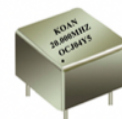


恒温振荡器 Oven Controlled Crystal Oscillator: KO5050T KO5050S

Feature 特征

- High Stability AT-cut or SC-cut Crystal 高稳定性(AT/SC 切晶片)
- HCMOS or True Sine output Waveform 可选 HCMOS 或正弦波
- Voltage Control is standard 有电压控制



General Specifications 规格参考

PARAMETER	性能参数	KO5050T			KO5050S		
Supply Voltage	工作电压	+5.0V±5% ; +12.0V±5%					
Output Waveform	输出波形	HCMOS			True Sine		
Frequency Range	频率范围	5~20MHz			5~160MHz		
Standard Frequency	通用频率	5, 10, 100MHz					
Output Load	输出负载	15pF (50pF max)			50Ω		
Output Logic	输出电平	High: ≥0.9Vdd; Low: ≤0.1Vdd			5~9dBm		
Initial Calibration Tolerance	基准温度 初始精度	±100ppb max					
Voltage Control	压控范围	0~5V(Vcon=2.5V) 或 固定					
Frequency Adjustment	频率调整	±0.5~2.0ppm					
EFC Linearity	非线性误差	正向±10% max.					
Power Dissipation	功耗	2W max at steady-state@25°C; 6W max at turn-on					
Frequency Stability 频率稳定性							
Temperature	温度	见下表					
Load Change	负载变化	±1ppb max					
Voltage Change	电压变化	±1ppb max					
Warm-up Time	预热时间	5 minute max. within ±50ppb of its reference frequency.					
Aging	老化率	±0.5~±5ppb per day ; ±20~±500ppb per year					
Harmonic	谐波	-			<-30dBc		
Spurious	杂散抑制	-			<-75dBc		
Duty Cycle	占空比	45~55%			-		
Rise & Fall Time	上升下降时间	7 ns max.			-		
Phase Noise	相位噪声(dBc/Hz)	-75 → -110	-90 → -130	-120 → -150	-140 → -160	-150 → -165	
		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					

Frequency Stability 温度频差 V.S. Operating Temperature Range 温度范围				
温度	系列	标准 Standard Series	高稳 High Stability	超优短稳 Ultra Low Short-term Stability Allan Deviation≤5x10 ⁻¹² (1s)
频率范围		5~50MHz	5~40MHz	5/10MHz
A: -10~60°C		±3~±50ppb	±0.1~±0.5ppb	±1~±30ppb
B: -20~70°C		±5~±50ppb	±0.5~±1ppb	±3~±30ppb
C: -40~85°C		±20~±200ppb	±1~±10ppb	±20~±30ppb
				低相噪 Low Phase Noise
				10~160MHz
				±50~±100ppb
				±50~±200ppb
				±100~±500ppb

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

