

CRYSTAL UNIT SPECIFICATIONS

产品规格书

Customer Approval 客户批准

(Please Return A Copy With Appoval)

Customer 客户	
Customer P/N 客户料号	
Product 产品类型	CRYSTAL OSCILLATOR-OCXO
Spec 产品规格	O2020/5.000~200.000MHz
SaiSiTime P/N 赛思一晶料号	AG4 Series

Drawn 编制	Checked 审核	Approved 批准
ZhangLinjun	FengYing	TangLong

Electrical Specification 电气参数

Item 参数	Symb./Remark 条件/备注	Min 最小值	Type 典型值	Max. 最大值	Units 单位
Output Characteristics 输出特性					
Nominal Frequency 标称频率	F0	5.000		200.000	MHz
Waveform 波形	Load=50Ω±5%	Sine wave			
Harmonic Suppression 谐波抑制				-40	dBc
Noise Suppression 杂波抑制				-80	dBc
Signal power 信号功率		10			dBm
Frequency Stability 频率稳定度					
Temperature Stability 温度稳定度	-40 ~ +85°C , f ref =(f max +f min)/2	≤±0.01			ppm
Power Characteristics 电源特性	5V±5%	≤±0.01			ppm
Load Characteristics 负载特性	50Ω±5%	≤±0.01			ppm
Aging 老化	Power-on time > 30 days 通电时间>30 天	≤±1			ppb/d
		≤±0.1			ppm/y
Accuracy 准确度	VC=2.5V , Factory calibration value 出厂校准值 , +25°C	≤±0.1			ppm
Short-Term Stability 短稳	Allen deviation, power on time > 1h, (static no wind) 阿伦偏差 , 通电时间 > 1h , (静态无风)			0.05	ppb@1s
Power Characteristics 电源特性					

Version: 1.0 Date: November 26, 2025 版本/1.0 时间/2025.11.26

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CRYSTAL OSCILLATOR-OCXO 恒温晶体振荡器

Starting Current 启动电流				700	mA
Steady Current 稳定电流	@ +25°C			250	mA
Operating Voltage 工作电压	±5%		5.0		V
Power-On Characteristics 开机特性	The frequency deviation of 5 minutes after startup compared to 1 hour 开机 5 分钟相对 1 小时的频率偏差	≤±0.1			ppm
Voltage Control (Frequency Fine-Tuning) 压控电压（ 频率微调 ）					
Tuning Voltage Range 调谐电压范围	Center voltage + 2.5V 中心电压+2.5V	0		5	V
Frequency modulation range 调频范围	≥±1				ppm
Frequency modulation slope 调频斜率	Positive Polarity				
Linearity 线性度				10	%
Input Impedance 输入阻抗		100			KΩ
Phase Noise 相位噪声	10Hz		-105	-100	dBc/Hz
	100Hz		-135	-130	
	1KHz		-165	-160	
	10KHz		-175	-170	
	100KHz		-180	-175	
	1MHz		-180	-175	
Reference Voltage 参考电压	Output voltage 输出电压		4.5		V

Environmental Conditions

环境条件

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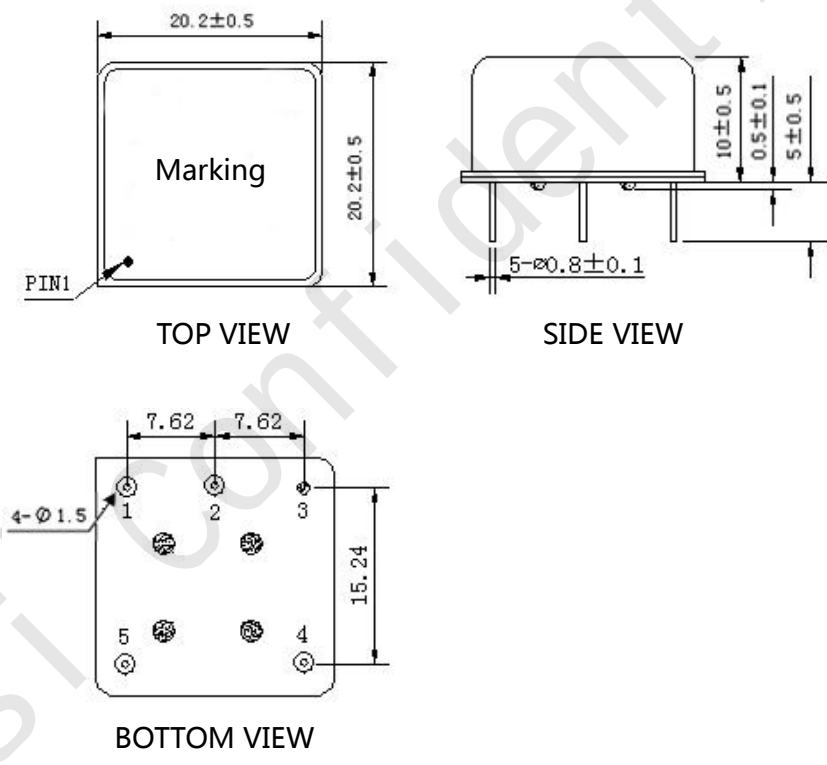
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Operating temperature 工作温度		-40		+85	°C
Storage temperature 存储温度		-55		+105	°C
Vibration 振动	Test conditions: Amplitude: 0.75mm (5 - 26Hz); Acceleration: 10g; 10Hz - 500Hz; 30min in a cycle, 2 hours in each direction (3 directions, X, Y and Z) , 测试条件：振幅：0.75mm (5 ~ 26HZ) ；加速度：10g ；10Hz ~ 500Hz; 30min 一个循环，每个方向测试 2 小时（3 个方向，X、Y 和 Z）, IEC 68-2-06 Test Fc.				
Shock 冲击	50g; 11ms; Half-sine wave (in 3 directions, X, Y, and Z), 50g ; 11ms ; 半正弦波（3 个方向，X、Y 和 Z）, IEC 68-2-27 Test Ea/Severity 50A				
Weight 重量	20.7g				

DIMENSIONS (Unit: mm) 产品尺寸图 (单位 mm)

Item 参数	Dimension 封装	PIN 引脚	Feature 特性
Dimension	20.2 x 20.2 x 10mm	1	Voltage Control
		2	Reference Voltage
		3	GND
		4	OUT
		5	VCC
Dimension (mm)	 The technical drawing includes three views of the 20.2 x 20.2 x 10mm OCXO package: TOP VIEW: Shows a square package with dimensions 20.2 ± 0.5 mm on both sides. A marking area is indicated, and PIN1 is located at the bottom-left corner. SIDE VIEW: Shows the package height of 10 ± 0.5 mm. The mounting pads have a width of 5 ± 0.5 mm and a thickness of 0.5 ± 0.1 mm. The distance between the mounting pads is $5 \times \phi 0.8 \pm 0.1$ mm. BOTTOM VIEW: Shows the pin layout with dimensions 7.62 mm between pins 1-2, 2-3, and 4-5. The distance between pins 1 and 5 is 15.24 mm. The pin diameter is $4 \times \phi 1.5$ mm.		