

CRYSTAL UNIT SPECIFICATIONS

产品规格书

Customer Approval 客户批准 (Please Return A Copy With Appoval 请批准后回签一份)

Customer 客户	
Customer P/N 客户料号	
Product 产品类型	CRYSTAL RESONATORS
Spec 产品规格	HC-49U/0.500~200.000MHz
SaiSiTime P/N 赛思一晶料号	AH9 Series

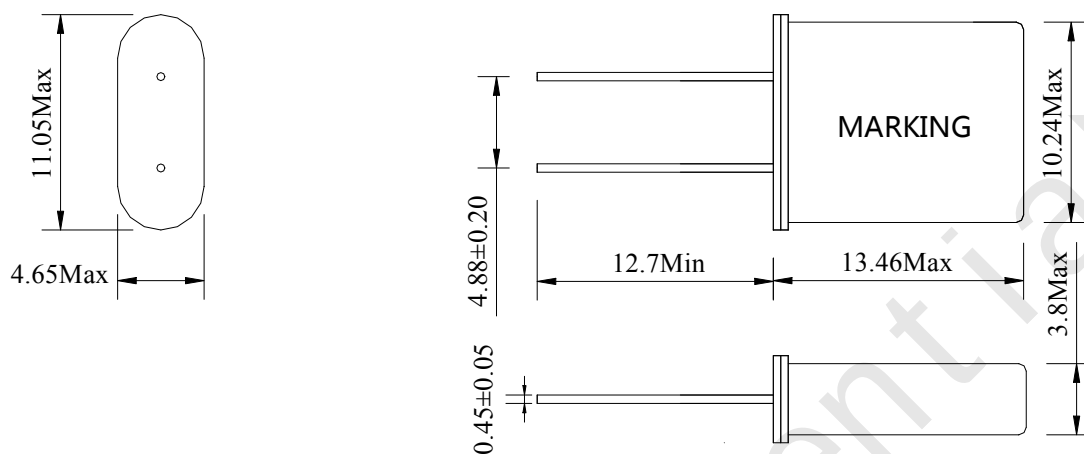
Drawn 编制	Checked 审核	Approved 批准
ZhangLinjun	FengYing	TangLong

Electrical Specification 电气参数

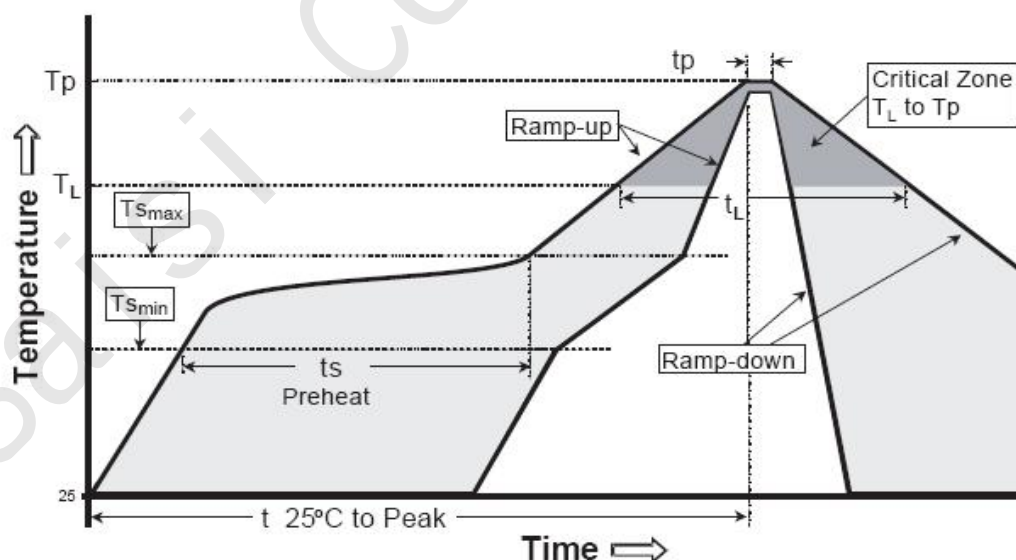
Item 参数	Symb./Remark 条件/备注	Min 最小值	Type 典型值	Max. 最大值	Units 单位
Nominal Frequency 标称频率	F0	0.500		200.000	MHz
Oscillation Mode 振动方式		AT Fund			
Frequency Tolerance 频率准确度	$\Delta F/F0$, @25°C±3°C		±10 ±20		ppm
Frequency Stability 温度稳定度	-20~+70°C -40~+85°C	±30		±50	ppm
Load capacitance 输出负载	CL	6~specify			pF
Equivalent Series Resistance 等效串联电阻	ESR	Seepage1			Ω
Drive Leve 激励功率	DL		100	300	μW
Insulation Resistance 绝缘电阻	@100VDC	500			MΩ
Shunt Capacitance 静态电容	C0			7.0	pF
Aging 老化	First Year 第一年	-5		+5	ppm

Seepage1

Frequency Range (MHz)	Oscillation Mode	ESR(Ω)Max	Frequency Range (MHz)	Oscillation Mode	ESR(Ω)Max
0.500≤F0<1.8432	AT Fund	≤3000	6.000≤F0<10.000	AT Fund	≤40
1.8432≤F0<3.000	AT Fund	≤400	10.000≤F0<12.500	AT Fund	≤30
3.000≤F0<3.500	AT Fund	≤150	12.500≤F0<40.000	AT Fund	≤25
3.500≤F0<4.000	AT Fund	≤120	20.000≤F0<100.000	3rd	≤40
4.000≤F0<4.500	AT Fund	≤100	100.000≤F0<150.000	5th	≤80
4.500≤F0<5.000	AT Fund	≤70	150.000≤F0<200.000	7th	≤100
5.000≤F0<6.000	AT Fund	≤50			

DIMENSIONS (Unit: mm) 产品尺寸图 (单位 mm)

Profiles Feature 焊接特性	Pb-Free Assembly 焊接参数
Average Ramp-up Rate (Ts max to Tp) 最大升温速率	3°C/second Max.
Preheat 预热	
■ Temperature Min (Ts min)最低温度	140°C
■ Temperature Max (Ts max)最高温度	180°C
■ Time (ts min to ts max)最低至最高温度时间	70~100 seconds
Time maintained above	
■ Temperature (TL)	240°C
■ Time (tL) 保持该温度以上的时间	20~50 seconds
Peak/Classification Temperature(Tp)峰值温度	250°C
Time within 5°C of actual Peak Temperature (tp)峰值温度±5°C内最长焊接时间	10 seconds Max
Ramp-down rate 最大降温速率	6°C/second Max.
Time 25°C to Peak Temperature 从 25°C升至峰值温度最长时间	8 minutes Max.
Suggest reflow times 最大焊接次数	3 Times Max



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

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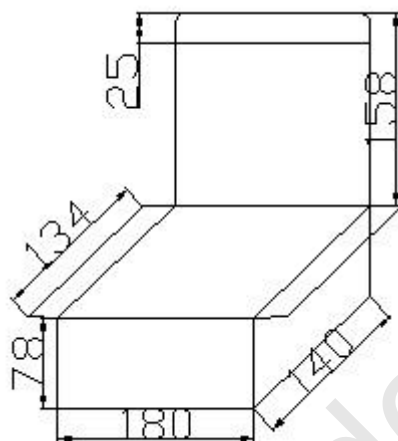
PAKING (Unit: mm) 包装 (单位 : mm)

Each bag 100 pieces of Crystal Resonators 每袋 100pcs

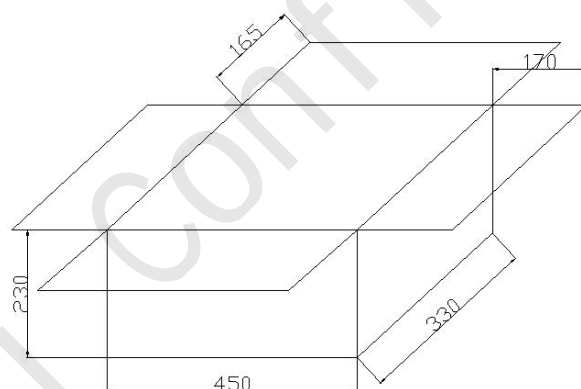
Per inner box 10 bag 每盒 10 袋

Per package 10 inner boxes 每箱 10 盒

Box Dimensions (Unit: mm) 纸盒尺寸 (单位 : mm)



1k/box



10k/pcs is 10 box