

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-49SMD/3.000~100.000MHz
SaiSiTime P/N 赛思一晶料号	AH2 Series

Drawn 编制	Checked 审核	Approved 批准
ZhangLinjun	FengYing	TangLong

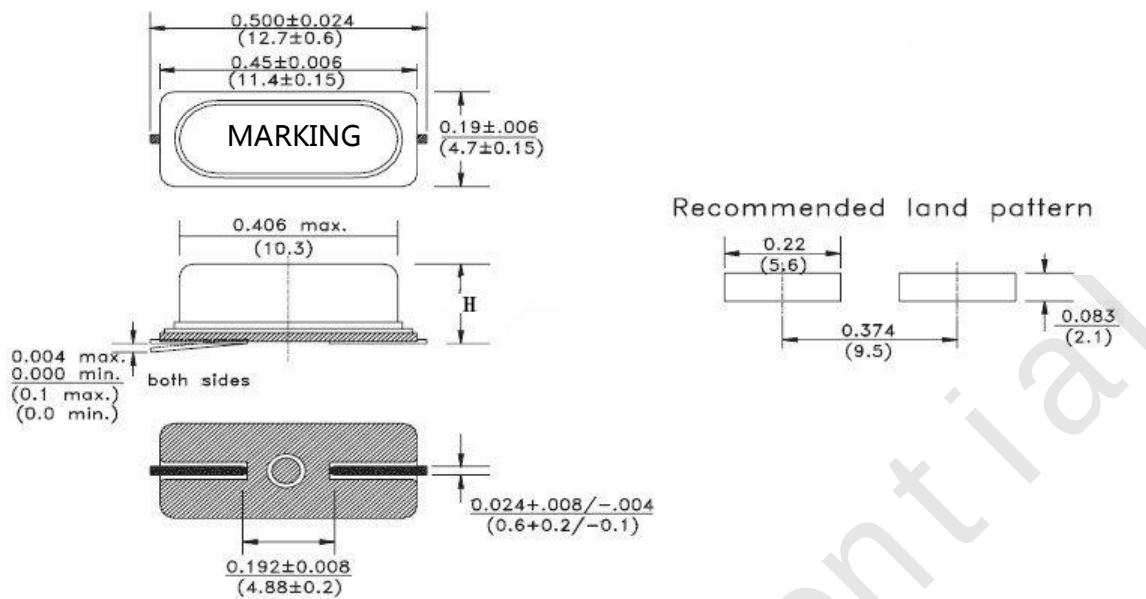
Electrical Specification 电气参数

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	3.000		100.000	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
3.000≤F0<4.000	AT Fund	≤150
4.000≤F0<6.000	AT Fund	≤80
6.000≤F0<8.000	AT Fund	≤50
8.000≤F0<16.000	AT Fund	≤40
16.000≤F0<48.000	AT Fund	≤30
24.000≤F0<40.000	3rd	≤100
40.000≤F0<80.000	3rd	≤50
50.000≤F0<100.000	5th	≤100

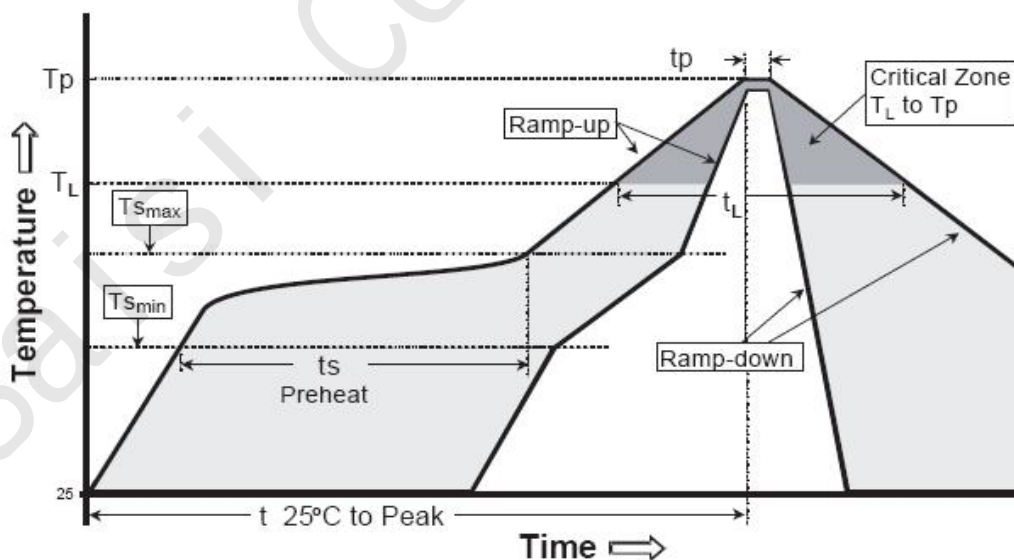
DIMENSIONS (Unit: mm) 产品尺寸图 (单位 mm)



H	4.2
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REFLOW PROFIL 回流焊

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



Remark : To reference JEDEC J-STD-020C

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Beijing Shenzhen xi'an chengdu wuhan Jiaxing taizhou official website /www.zjsaisi.com

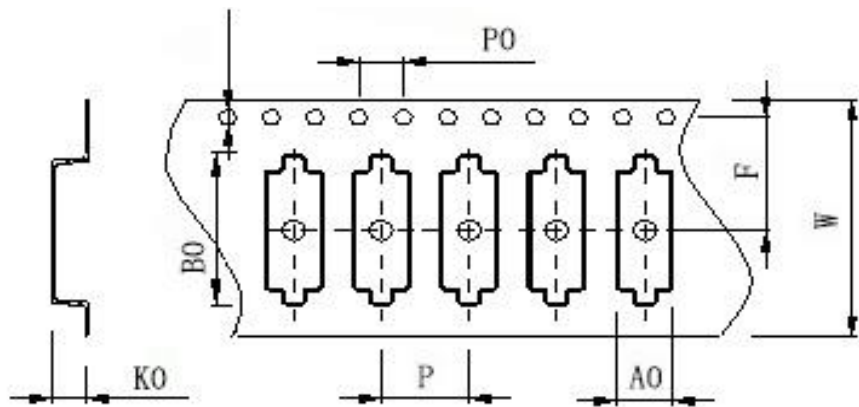
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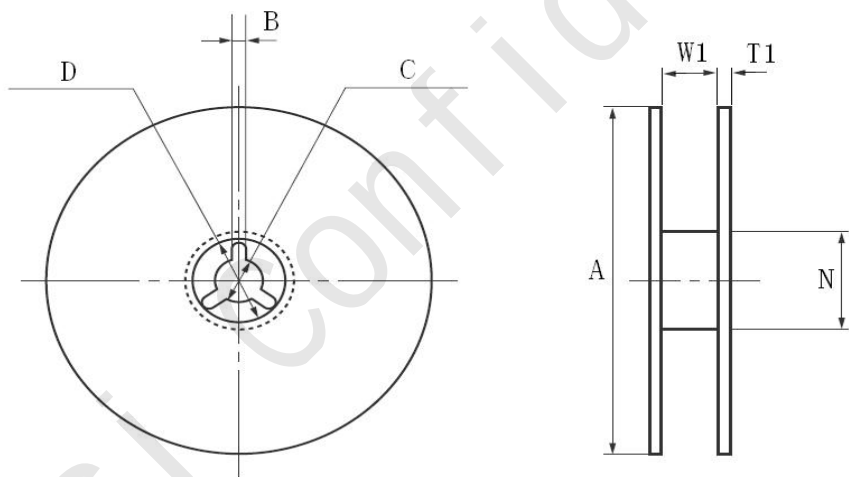
总部/浙江省嘉兴市南湖顺泽路 1376 号 电话/+86-0573-8258-6505

PAKING (Unit: mm) 包装 (单位 : mm)



W	F	P	P0	A0	B0	K0
24.0±0.3	11.5±0.1	12.0±0.1	4.0±0.1	5.0±0.1	15±0.1	4.4±0.1

Reel Dimensions (Unit: mm) 卷盘尺寸 (单位 : mm)



Pieces per reel	A	B	C	D	N	W1	T1
1000/reel	Φ330±1.0	2.5±0.5	Φ13.5±0.5	Φ21±1.0	Φ99±1.0	24.5±1.0	23±0.5