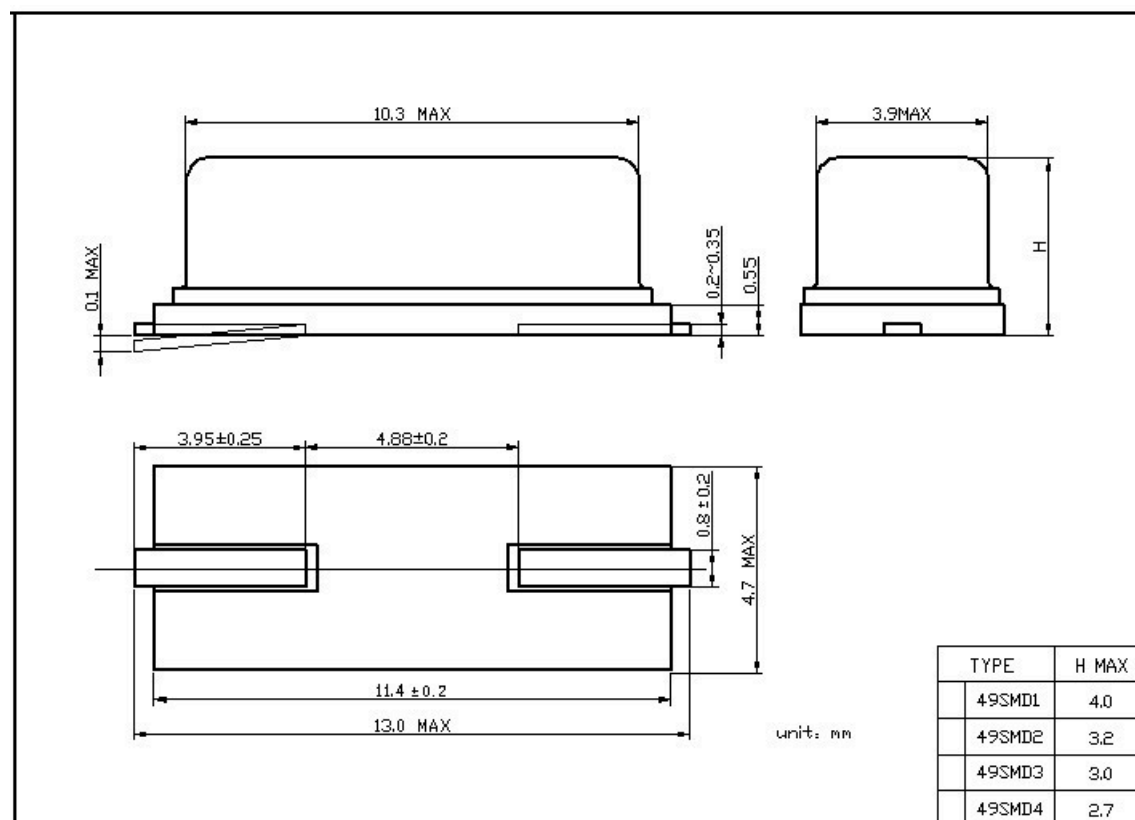




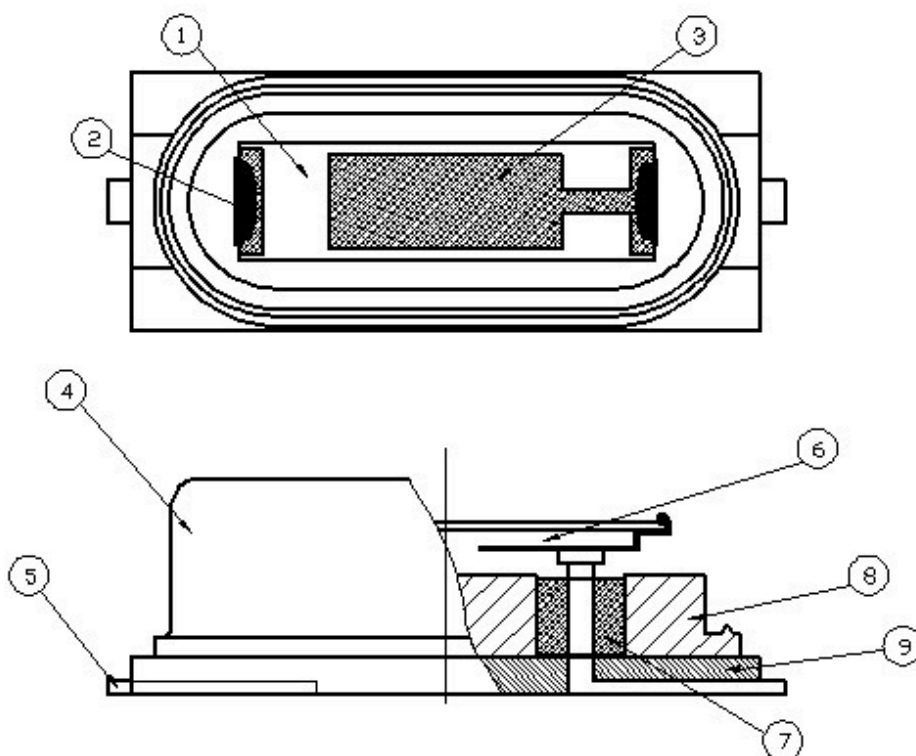
Frequency range	3.00~100.00MHZ
Load Capacitance	Series, 6~32pf, or specify
Frequency Tolerance (at25℃)	± 10 PPM± 20 PPM± 30 PPM or specify
Frequency stability Over Operating Temperature Range	± 10 PPM± 20 PPM± 30 PPM or specify
Operating Temperature Range	-20~+70℃ -40~+85℃ or specify
Storage Temperature Range	-40~+85℃
Shunt Capacitance(C0)	7pf-Max
Drive Level	1~1000uW (100uW typical)
Insulation Resistance	500m Minimum at 100VDC
Aging(at25℃)	± 3PPM/year Max.
Remark (备注) :	

DIMENSIONS SPECIFICATIONS (外形尺寸)





Report of bills of materials and suppliers (物料清单及供应商)

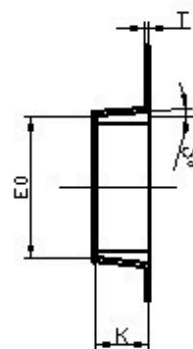
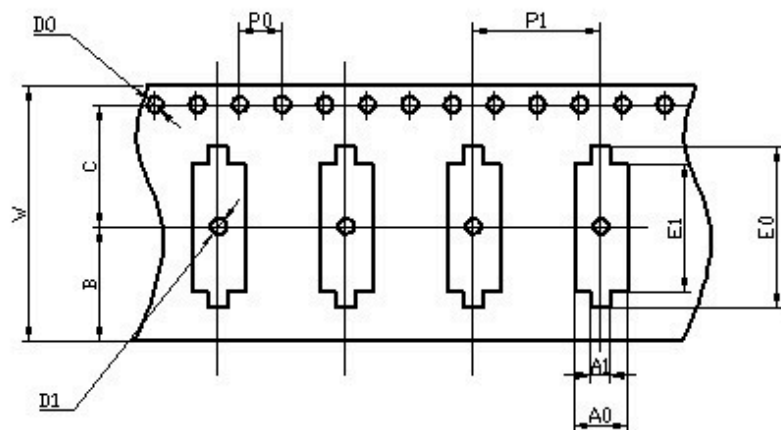




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NO.	Product name 部件名称	MATERIALS 材质	QTY 数量	Supplier 供应商
1	Blank 晶片	SIO2	1	DeYangHuiYuan 德阳惠源
2	Silver paste 导电胶	3301F	2	THREE BOND 三键
3	Silver 电极	Ag	2	GuangYang 光洋
4	Cover 外壳	Cu	1	TongLingJingSai 铜陵晶赛
5	Lead 引线	Kovar	2	RiZhaoRongDa 日照荣达
6	Pin 簧片	C7701	2	RiZhaoRongDa 日照荣达
7	GLASS 玻璃珠	GLASS	2	RiZhaoRongDa 日照荣达
8	Base 底板	SPCC-SD	1	RiZhaoRongDa 日照荣达
9	Insulation 垫片	PPA	1	TeFuLong 特富隆

Carrier type (载带类型)

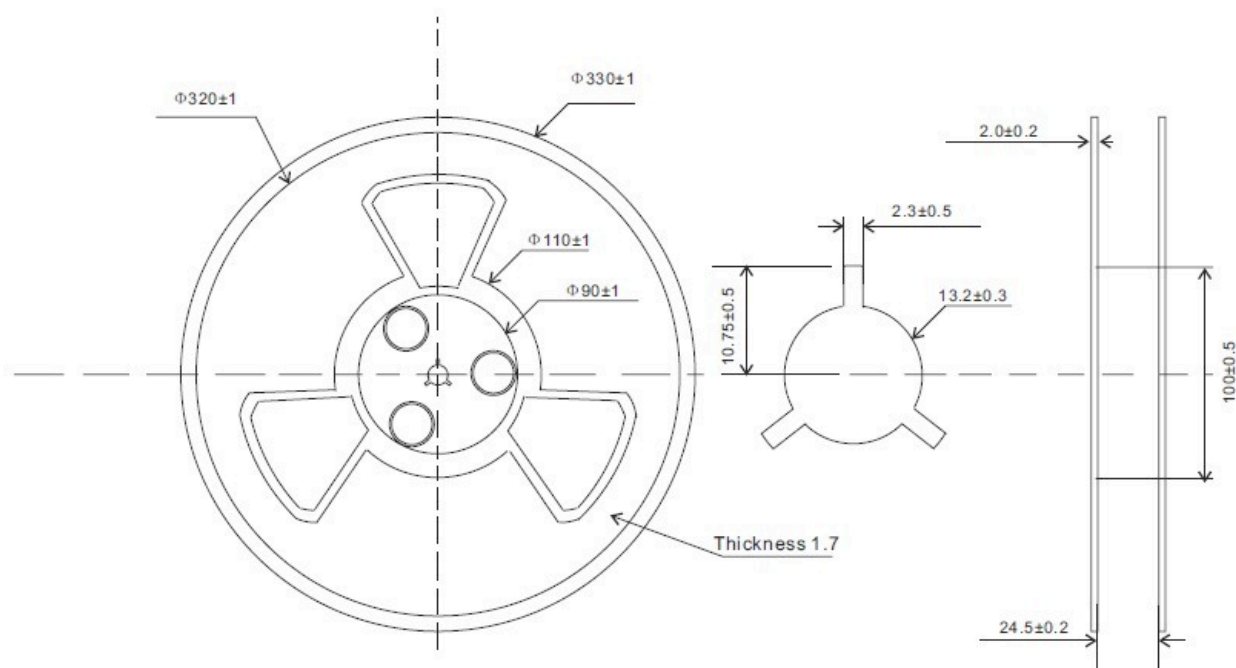


unit: mm

1000Pcs Per Reel

Symbol Dinens slons	A0	A1	B	C	D0	D1	E0	E1	K	P0	P1	T	W
P8-4.35	5.0 ± 0.1	1.8 ± 0.1	10.7 ± 0.2	11.5 ± 0.2	φ 1.5 ± 0.1	φ 1.5 ± 0.1	15.0 ± 0.1	12.0 ± 0.2	4.35 ± 0.1	4.0 ± 0.1	8 ± 0.1	0.4 ± 0.05	24 ± 0.5
P8-3.40	5.0 ± 0.1	1.8 ± 0.1	10.7 ± 0.2	11.5 ± 0.2	φ 1.5 ± 0.1	φ 1.5 ± 0.1	15.0 ± 0.1	12.0 ± 0.2	3.40 ± 0.1	4.0 ± 0.1	8 ± 0.1	0.4 ± 0.05	24 ± 0.5
● P12-4.35	5.0 ± 0.1	1.8 ± 0.1	10.7 ± 0.2	11.5 ± 0.2	φ 1.5 ± 0.1	φ 1.5 ± 0.1	15.0 ± 0.1	12.0 ± 0.2	4.35 ± 0.1	4.0 ± 0.1	12 ± 0.1	0.4 ± 0.05	24 ± 0.5
P12-3.40	5.0 ± 0.1	1.8 ± 0.1	10.7 ± 0.2	11.5 ± 0.2	φ 1.5 ± 0.1	φ 1.5 ± 0.1	15.0 ± 0.1	12.0 ± 0.2	3.40 ± 0.1	4.0 ± 0.1	12 ± 0.1	0.4 ± 0.05	24 ± 0.5

Reel (载盘)



PACKING METHOD(包装样式)



1、Packed 1000 pcs in per reel.

1000pcs一卷盘

2、Packed 1 reel in 1 box, Size of carton: 340mm*335mm*35mm

1卷盘装一盒，纸盒尺寸：340mm*335mm*35mm

3、Packed 10 box in 1 carton

10盒一箱

4、There are 10000 pcs in 1 carton

总计10000pcs 一箱

5、Size of carton: 360mm*360mm*410mm

外箱尺寸：360mm*360mm*410mm

6、Label mode

标签样式

A: Part NO.

B: Holder Type

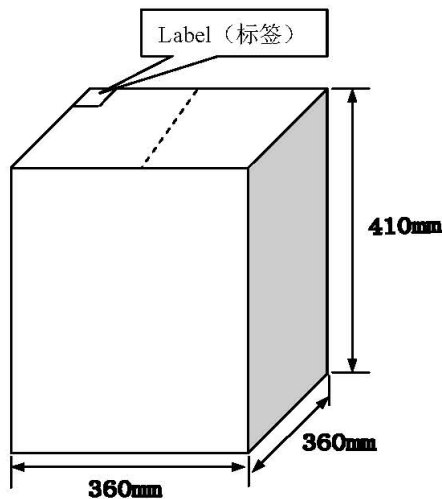
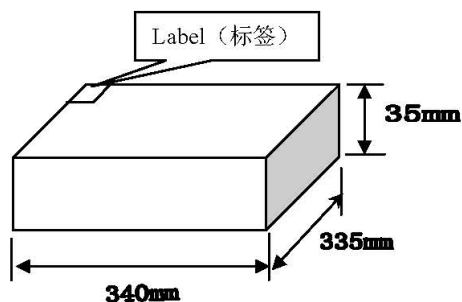
C: Frequency

D: CL

E: $\Delta f_1/f_0$

F: ESR

G: Quantity





苏州市利明电子有限公司
Suzhou

代理 杭州创质科技有限公司
Liming

Electronics

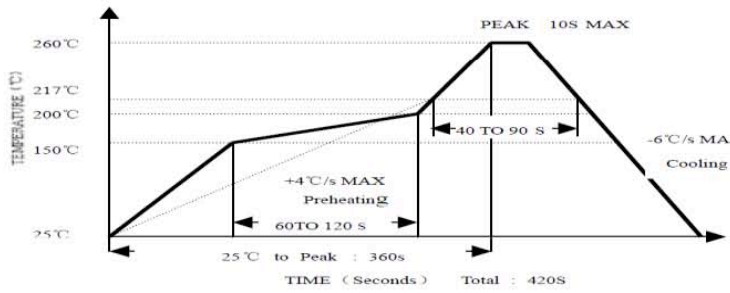
Co., Ltd.

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RELIABILITY SPECIFICATIONS 可靠性测试标准

5	Shock 耐冲击性	According to experiment of IEC 68-2-27 method Ea,the biggest acceleration :981m/s2(100g),work time :6ms,and 6 surfaces , and 3 directions for each surface,and shall be Shocked 18 times in total.			AB
		按IEC 68-2-27试验Ea进行，最大加速度：981m/s2（100g),作用时间：6ms，6面，每面三个方向，共18次。			
6	Cold 耐寒性	According to experiment of IEC 68-2-1 method Aa, The quartz crystal unit should be stored at a temperature -40±3℃ for 2 hours,and then it shall be subjected to standard atmospheric conditions for 1 hour,after which measurement shall be made.			A
		按IEC 68-2-1试验Aa进行，晶体在温度-40±3℃中放置2小时后，在常温常湿状态下放置1小时后测试。			
7	Dry Heat 干 热	According to experiment of IEC 68-2-2 Ba,quartz crystal unit should be stored at a temperature 85±2℃ for 2 hours.Then it shall be subjected to standard atmospheric conditions for 1 hour ,after which measurement shall be made.			A
		按IEC 68-2-2试验Ba进行，晶体在温度85±2℃中放置2小时后，在常温常湿状态下放置1小时后测试。			
8	High heat and high humidity 稳态湿热	According to experiment of IEC 68-2-3 method Ta,quartz crystal unit shoud be stored at a temperature 40±2℃ and at humidity 90~95% for 96 hours.Then it shall be subjected to standard atmospheric conditions for 1 hour.			A
		按IEC 68-2-3试验Ta进行，晶体在温度40±2℃，湿度90~95%中放置96小时后，在常温常湿状态下放置1小时后测试。			
9	Temperature Cycling 温度变化	According to experiment of IEC 68-2-14 method Na,quartz crystal unit shall be made 5 temperature cycles ,and then it shall be subjeected to standard atmospheric conditions for 1 hour.			A
		按IEC 68-2-14试验Na进行，晶体按下表做5个温度循环后，在常温常湿状态下放置1小时后测试。			
			TEMPERATURE 温度	STORE TIME 放置时间	
		1	-40±3℃	30min	
		2	Normal Temp(常温)	30sec	
		3	100±2℃	30min	
		4	Normal Temp(常温)	30sec	



10	Drop 跌落	According to experiment of IEC 68-2-32 method Ed,quartz crystal unit shall be dropped from 75cm height on 3cm hard board for 3 times.	AB
		按IEC 68-2-32试验Ed进行，晶体从75厘米高度自由下落至3厘米硬木板，重复3次。	
11	Reflow 回流焊	Reflow soldering cure see the chart.	A
		回流焊曲线见下图。 	
12	Leakage 气密性	Alcohol press method:quartz crystal unit shall be immersed in the can,and pressed by 0.5kg press for 30min;Then put away press ,and dry it.Quartz crystal unit shall be test insulation resistance by 100V volts d.c for 1 min.	D
		酒精加压法：晶体浸入酒精罐中，加压（压力0.5kg，时间30分钟）；撤去压力后，晾干晶体，测量引线与外壳之间绝缘电阻（100V直流电压，时间1分钟）。	
13	Aging 老化	Quartz crystal unit shall be stored at a temperature 85±2℃ for 720±12 hours(30days),and then it shall be subjected to standard atmospheric conditions for 1 hour.	A
		晶体在温度85±2℃中放置720小时（30天）±12小时后，在常温常湿状态下放置1小时后测试。	

Accept Level:

判定标准:

No.	specification 标准
A	Satisfying the electric characteristic; Frequency change is at the range of 5PPM and resistance change is at the range of 5Ω.
	电气性能可满足要求：频率变化量在5ppm以内,电阻变化量在5Ω以内。
B	After each test,no visible damage shall be manifested,nor shall the hermetic seal break down
	试验后，无机械损伤
C	Dipping in 3 sec.A new uniform coating of solder shall cover a minimum of 95% of the surface being immersed.
	浸锡时间3秒以内，引线挂锡面积95%以上。
D	Insulation resistance of leads shall be more than 500MΩ(100V DC).
	端子之间的绝缘电阻≥500MΩ(100V DC)。

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