

# 深圳市昌骏芯电子有限公司

## 石英谐振器规格书

产品名称:	石英晶振谐振器
产品型号:	3225/37. 400MHZ
产品参数:	9PF/±10ppm
产品编码:	1. 3A. 37400. 0534
尺寸图:	P. 2 3
技术部:	董宗全

### 客户确认印栏

认 证 印 章

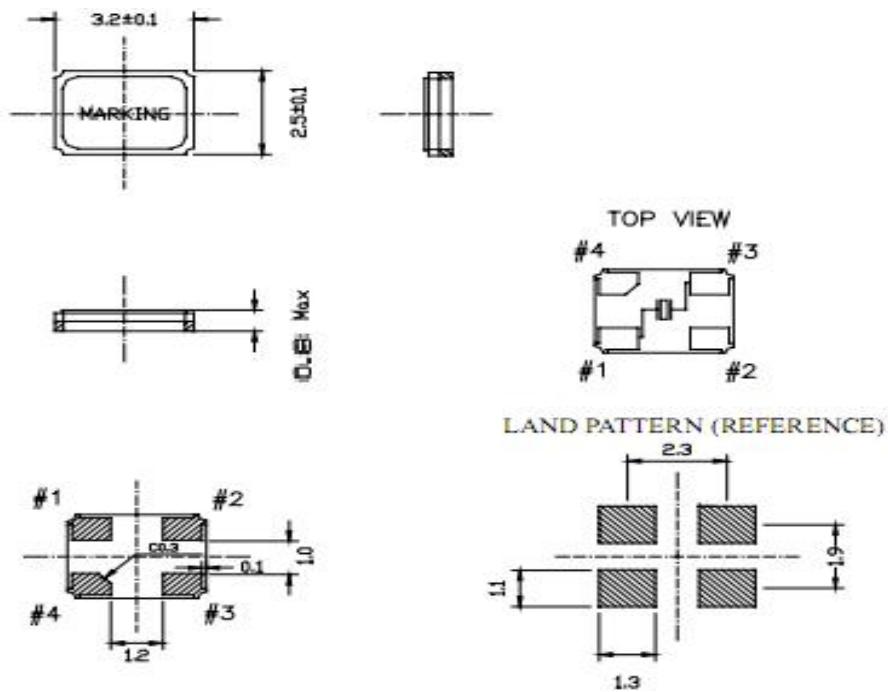
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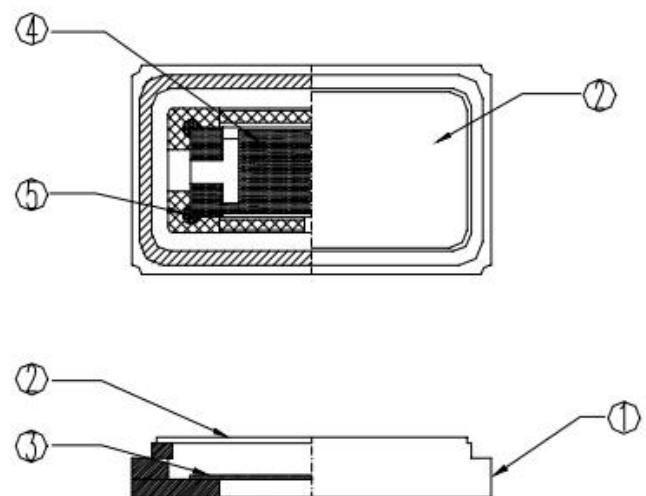
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本规格章程连同本页合共6页

1. Frequency:	37.400 MHZ
2. Holder Type:	SMD3.2*2.5
3. Frequency Tolerance:	$\pm 10\text{ppm}$ at $25^\circ\text{C} \pm 3^\circ\text{C}$
4. Equivalent Series Resistance:	40 $\Omega$ Max
5. Storage Temperature Range:	-40°C ~ +85°C
6. Operating Temperature Range:	-40°C ~ +85°C
7. Frequency Characteristics Over Temperature:	$\pm 10\text{ppm}$ -40°C ~ +85°C
8. Load Capacitance (CL):	9 PF
9. Drive Level:	100 $\mu\text{W}$
10. Shunt Capacitance:	5PF MAX
11. Insulation Resistance:	$\geq 500\text{M}\Omega$ Min at 100 V
12. Mode Of Oscillation:	Fundamental
13. Aging:	$\pm 3\text{ppm}/\text{Year}$
Marking description:	K37.40 MHZ
14. Dimensions(mm):	



#### 16. Structure Illustration



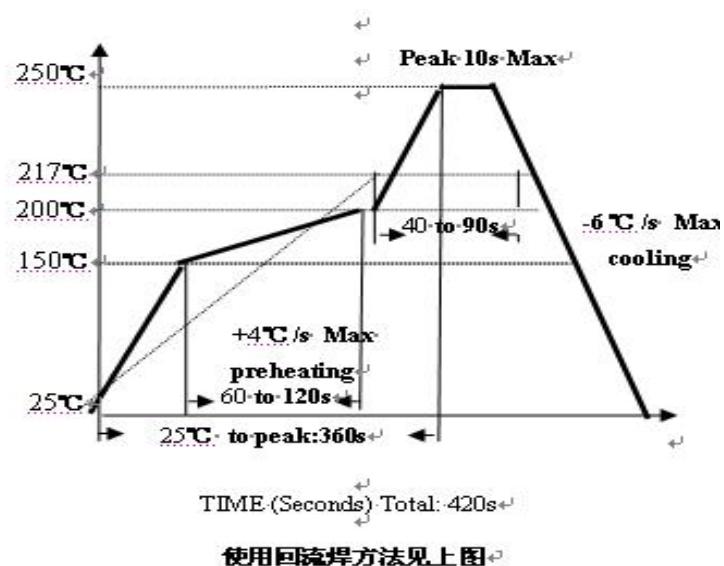
PART NAME		MATERIAL	PART NAME		MATERIAL
1.	BASE	CERAMIC	4.	ELECTRODE	Metal
2.	LID	Co	5.	ADHESMES	SILVER GLUE
3.	BLANK	QUARTZ			

## Reliability Testing 可靠性测试项目介绍

项目	验条件及要求	要求
Vibration 振动	Endurance condition by a frequency sweep shall be made. The entire frequency range from 10HZ to 50HZ and return to 10HZ, shall be transverseb in 1min. Amplitude(total excursion):1.5mm this motion shall be applied for a period of 2h each of 3 mutually perpendicular axes(a total of 6h) 振动频率：从 10HZ 到 55HZ, 再回到 10HZ 1 倍频程/min 幅度为 1.5mm 3 个相互垂直的方向各 2 小时	(1). FL:+/-10ppm (2). Rr:+/-15%
Drop 跌落	From 70cm height 3 times on 3cm hard wooden floor 从 70cm 高处跌落到 3cm 厚的硬质木板上，重复 3 次	
Shock 冲击	Peak acceleration:981m/s <sup>2</sup> duration of the pulse :6ms three successive shocks shall be applied in both direction of 3 mutually perpendicular axes(a total of 18 shocks) 加速度：981m/s <sup>2</sup> 时间：6ms 作用在 3 个相互垂直的方向	
Damp heat, constant 恒定湿热	The unit shall be stored at a temperature of 40°C±2°Cwith relative humidity of 90%to95% for 48h, then it shall be subjected to standard atmospheric conditions for 1~2h after which measurement shall be made. 在温度：40°C ±2°C、湿度：90%to95%条件下存放 48 小时，然后在标准大气压下放置 1~2 小时后测试	
Cold 低温存储	The unit shall be stored at a temperature of -40°C±5°C for 48h, then it shall be subjected to standard atmospheric conditions for 1~2h after which measurement shall be made. 在-40°C±5°C下存放 48 小时，然后在标准大气压下放置 1~2 小时后测试	(1). FL:+/-10ppm (2). Rr:+/-10Ω
Dry heat 高温存储	The unit shall be stored at a temperature of 100°C±5°C for 24h, then it shall be subjected to standard atmospheric conditions for 1~2h after which measurement shall be made. 100°C±5°C下存放 24 小时，然后在标准大气压下放置 1~2 小时后测试	
Aging 老化	The unit shall be stored at a temperature of 85°C±5°C for 7d then it shall be subjected to standard atmospheric conditions for 1~2h after which measurement shall be made. 85°C±5°C下放置 7 天，然后在标准大气压下放置 1~2 小时后测试	
Temperature cycling 温度循环	The unit shall be subjected to 5 successive change of temperature cycles, each as show in table below, then it shall be subjected to standard atmospheric conditions for 1~2h after which measurement shall be made 在下表给定温度和时间参数的条件下循环 5 次，标准大气压下放置 1~2 小时后测试	

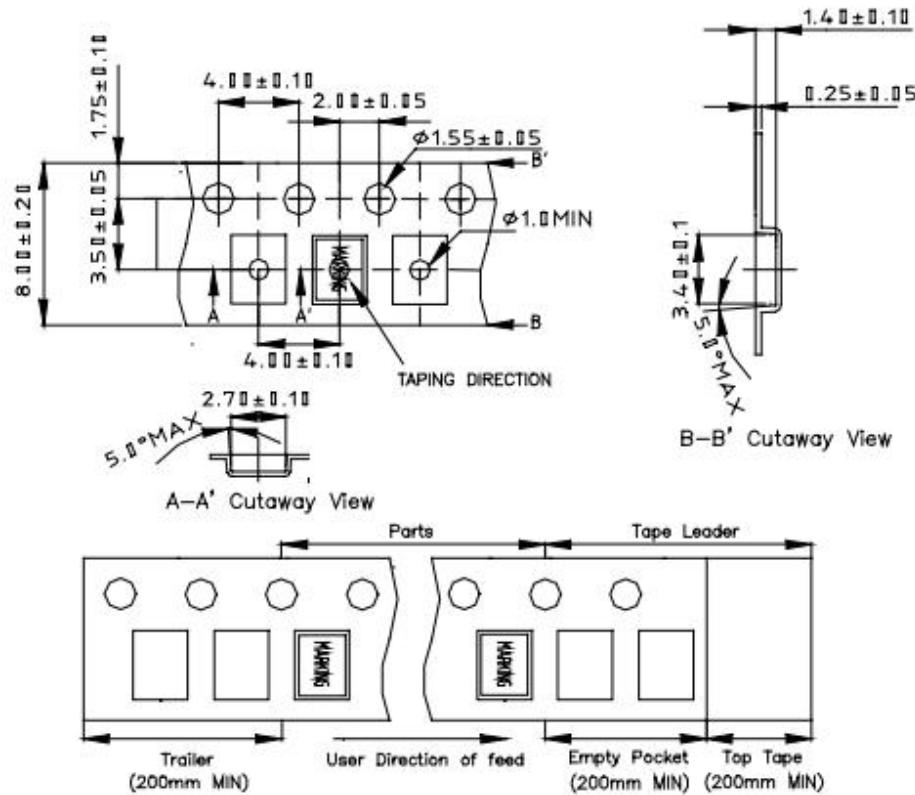
	Temperature 温度	Duration 放置时间
1	-40°C ± 3°C	30min (30 分钟)
2	Standard atmospheric conditions 标准大气压	Within 30s 30 秒内
3	100°C ± 3°C	30min (30 分钟)
4	Standard atmospheric conditions 标准大气压	Within 30s 30 秒内

Resistance to  
soldering heat  
耐焊接热

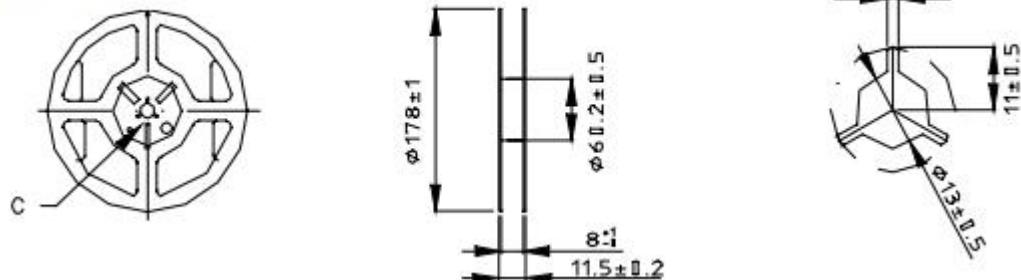


■ PACKING

1. CARRIER TYPE



2. REEL : 3000 PCS



拟制	成望生	审核	董宗全	批准	谢为亮
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