DIP石英晶振规格书
SMD CRYSTAL UNIT SPECIFICATIONS

Customer **客户名称**	
Customer P/N **客户料号**	
Product **产品型号**	石英谐振器　SEAM DT-206
Nominal Frequency **标称频率**	32.768000KHz
YJX P/N **雅晶鑫电子料号**	TAXD32768K2BRDAKT2S
Issue Date **发行日期**	2026-08-04

供应商签署栏　YJX Supplier confirmatio		
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◆ 电性能参数/Electrical Parameters：

No.	特性 / Characteristic	范围 / Limits	备注 / Remark
1	产品型号 Ackage Type	SEAM DT-206	
2	标称频率 Nominal Frequency	32.768000KHz	
3	晶片切割 Crystal Cut	XY-Cut	
4	常温频差 Frequency Tolerance	±20ppm	测试温度/Measure at 25℃±3℃
5	使用温度范围 Operating Temperature Range	-10℃~+60℃	
6	二次温度系数 Temperature Coefficient	[-0.035±0.01]ppm/℃	
7	储存温度范围 Storage Temperature Range	-20℃~+70℃	
8	负载电容 Load capacitance	6 pF	
9	谐振电阻 Equivalent Series Resistance	40KΩ Max	
10	激励功率 Drive Level	1μW Max	
11	绝缘电阻 Insulation Resistance	500MΩ	At 250V_{DC}
12	静电容 Shunt Capacitance	1.5pF Max	
13	年老化率 Aging Per Year	±3ppm	
14	最小包装 Minimal packaging	1000pcs	

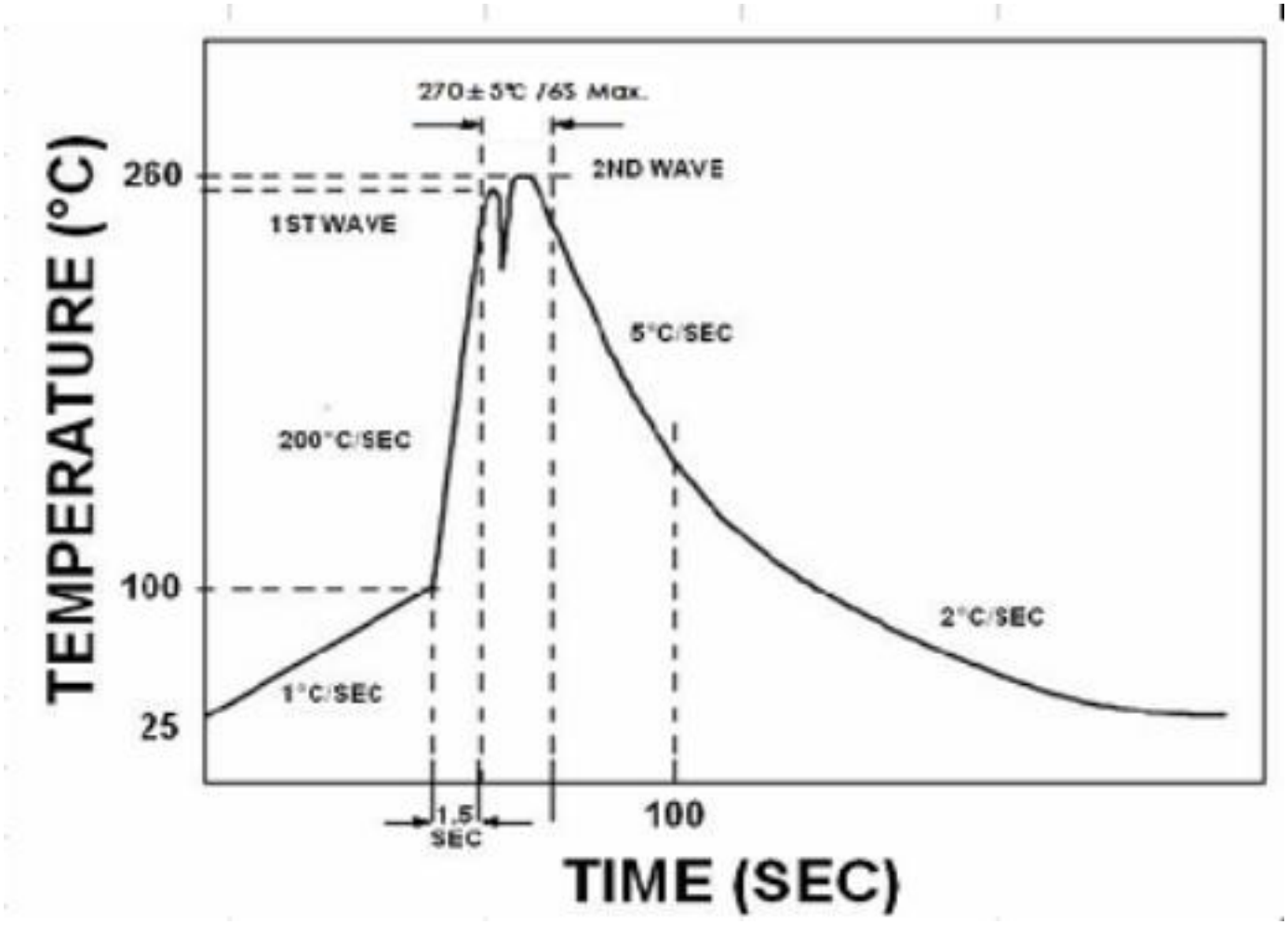
测试环境 Condition of test
除非另有规定，进行测量和试验的标准大气条件范围如下
Unless otherwise specified, the standard range of atmospheric conditions for making measurement and tests are as follow:
环境温度 Ambient temperature :25±5℃;
相对湿度 Relative humidity:40%~70% ;
如对测量结果有疑问，应在以下范围内测量 If there is any doubt about the results, measurement shall be made within the following limits:
环境温度 Ambient temperature :25±5℃;
相对湿度 Relative humidity:40%~70% ;
测量设备 Measure equipment
电气特性测量标准为： s&a250b 或同等标准。
Electrical characteristics measured by ： S&A 250B or equivalent.

◆ 可靠性试验 Reliability test

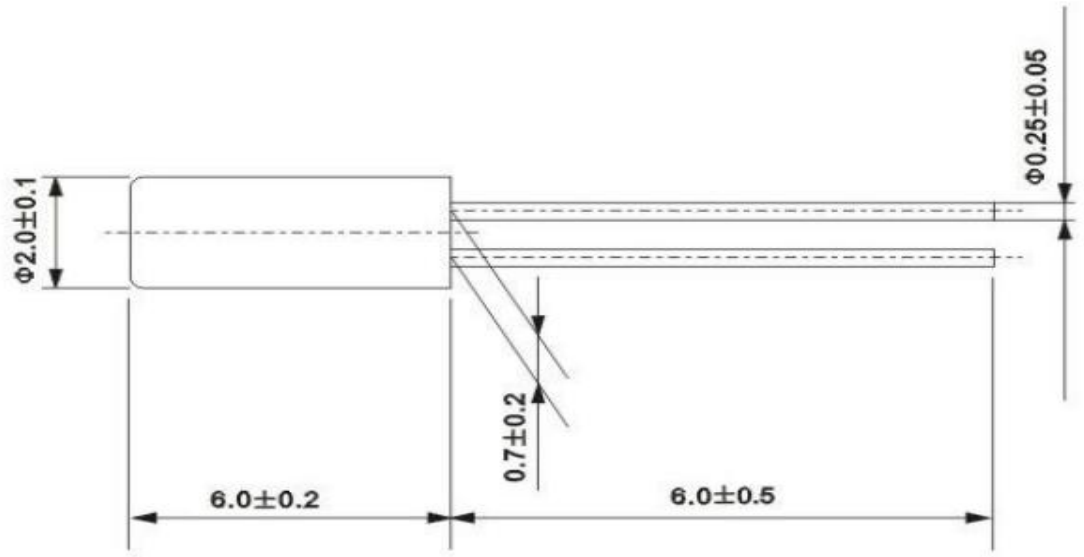
No.	测试项目 Item	测试条件 Test Conditions	判定标准 Basis of Verdict
1	振　　动 Vibration	(1) 振动频率Vibration Frequency 10 to 55Hz (2)振动幅度Vibration Amplitude 1.5mm (3)周期 Cycle Time 1-2min(10-55-10Hz) (4)振动方向Direction X.Y.Z (5)振动时间Duration 2h/each direction	频率变化最大:±10ppm Frequency Change:±10ppm Max. 电阻变化最大:5kohm Resistance Change:5kohm Max.
2	冲　　击 Shock	从75cm高的地方自由跌落3次到30mm厚的硬木板上 3 Times free drop from 75cm height to hard wooden board of thickness more than 30mm	频率变化最大:±10ppm Frequency Change:±10ppm Max. 电阻变化最大:5kohm
3	气密性 Leakage	晶体放入氦加压罐内，充入氦气压力0.5-0.6Mpa保持1小时; 然后使用氦质谱检漏仪测试。 Put crystal units into a hermetic container and Helium for 0.5-0.6 Mpa,and keep it for 1h;Check the leakage by a Helium leak detector	漏　气　率　小于:1x10⁻8mbar.l/s Leakage:1x10⁻8mbar.l/s Max.
4	可焊性 Solderability	将引线浸入完全熔化的焊锡锅内3-5s，焊锡温度245℃±5℃ Put the leads of crystal units into solder melted tank for 3 to 5s Temperature of solder melted tank is 245℃±5℃	浸过引线面积的95%以上被新焊锡 覆　盖 The dipped surface of the leads should be at least 95% covered with
5	手工焊接耐热 Soldering iron resistance	350℃±10℃,3+1/-0 sec	频率变化最大:±10ppm Frequency Change:±10ppm Max. 电阻变化最大:10kohm Resistance Change:10kohm Max.
6	波峰焊耐热 Wave soldering	推荐使用下面的波峰焊温度曲线进行波峰焊接。 The WAVE SOLDERING PROFILE as below is recommended:	

7	引线强度(引线直插式晶体) Lead Strength(DIP)	用0.9kg(9N)的力持续拉晶体引线30s±5s; 用0.45kg的力折引线成90° 2次(折弯处离机体1.5mm以上) The crystal lead with the 0.9kg(9N)power(keep it for 30s±5s) and bend the crystal lead 90° with 0.45kg power and two times (which you want to bend should be more than 1.5mm from thecase)	引线无异常 The crystal lead is not abnormity
8	耐高温能力 HighTemperature Endurance	晶体放置于85℃±2℃环境中 2小时后，常温放置1-2小时 The crystal units shall be put in somewhere for 2 hours at temperature of 85℃±2℃,then keep it for 1 to 2 hours under room temperature	频率变化最大:±10ppm Frequency Change:±10ppm Max. 电阻变化最大:5kohm Resistance Change:5kohm Max.
9	耐低溫能力 Low Temperature Endurance	晶體放置於-25℃ 環境中2小時後，常溫放置1-2小時 The crystal units shall be put in somewhere for 2 hours at temperature of -25℃,then keep it for 1 to 2 hours under room temperature	
10	耐濕性 Humidity Endurance	晶體放置於40℃ 、相對濕度90-95%環境中48小時後，常溫放 置1-2小時The crystal units shall be put in somewhere at 40℃ in relative humidity of 90-95% for 48 hours, then keep it for one or two hours under room temperature	
11	高低溫迴圈 Temperature Cycle	溫度從-40℃（保持30分鐘）升高到100℃（保持30分鐘），再降到-40℃（保持30分鐘）然後回到室溫25℃完成一個迴圈，共計 5個迴圈Temperature shift from low(-40℃) to high(100℃,keep 30 minutes),satisfy high(100℃) to low(-40℃,keep 30 minutes),then go up to room temperature for 5 cycles	

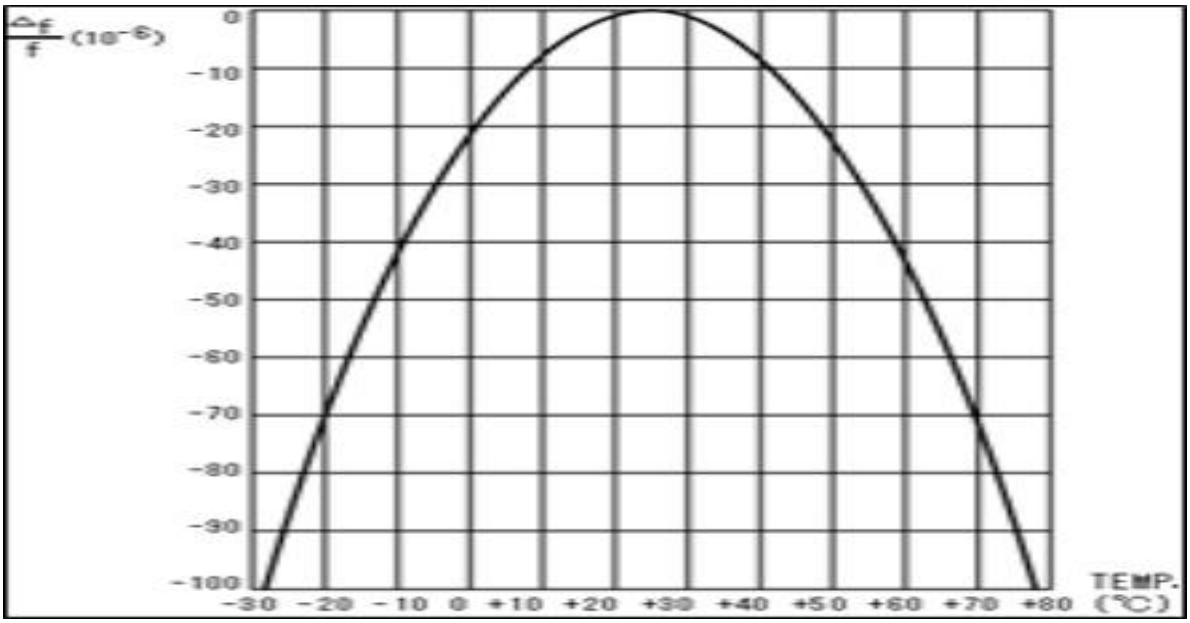
◆ 波峰流焊 Wave soldering



◆ 外形尺寸/Outline Dimensions (unit: mm)



TDXLF-206



RoHS2.0 及 REACH 符合性自我申明表

雅晶鑫电子有限公司 RoHS2.0 及 REACH 符合性自我声明表 YJX Electronic Co.Ltd
Capacitor company RoHS2.0 and REACH statement of conformity 产品型号：xxxxxx

材料名称 Material nam	有毒有害物质或元素 toxic and hazardous substance										备注 Remarks
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (CrVI)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)	邻苯二甲酸二丁基酯 (DBP)	邻苯二甲酸甲苯基丁酯 (BBP)	邻邻苯二甲酸二（2-乙基己基）酯 (DEHP)	邻苯二甲酸 二异丁酯 (DIBP)	
晶片 Blank	O	O	O	O	O	O	O	O	O	O	
基座 PKG	O	O	O	O	O	O	O	O	O	O	
上盖 LID	O	O	O	O	O	O	O	O	O	O	
银 Silver Ag	O	O	O	O	O	O	O	O	O	O	
锡膏 Solder Paste	O	O	O	O	O	O	O	O	O	O	

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 2011/65/EU 规定的限量要求以下。
○： It indicates that the content of hazardous substance in all homogeneous materials of the component is below the limit requirement of 2011/65 / EU.
×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 2011/65/EU 规定的限量要求。
×：It indicates that the hazardous substances are in excess of the limits requirement of 2011/65 / EU in at least one homogeneous material of the part.
(供应商应将其原材料按要求进行拆分，并按照此表格进行详细标注,对不能满足标准要求的零部件进行具体的原因描述)
(The supplier shall separate its raw materials according to the requirements and mark it in detail in accordance with this form, and describe the specific reasons for the parts that can not meet the standard requirements)