

客 戶

CUSTOMER: _____

送 樣 承 認 書

Crystal Resonator datasheet

產 品 名 稱

DESCRIPTION: Quartz Crystal Resonator 3215SMD

產品型號 / 料號

PART NO: 32.768KHz /12.5PF±5PPM

客 戶 料 號

Client NO: _____

送 樣 日 期

DATE: 2024-10-18

供應商審核 Confirmed By Ourself			客戶確認 Client Confirmed		
品質 Quality	研發 R/D	公章 Cachet	測試	審核	核准
劉媛	杜紅光				
公司地址：深圳市光明區東周一街星河天地二期 1 棟 B 座 709 ADD:709, Block B, Building 1, Xinghetiandi II, Dongzhou 1st Street, Guangming District, Shenzhen TEL:+86-0755-86212103 FAX:+86-0755-86212112 手機：13480903123 李火星					

	北 迪 P/N	12.5PF±5PPM		
3215SMD 石英晶体谐振器	客 户 P/N			
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1.技术参数 ELECTRICA SPECIFICATIONS		
1	标称频率 Nominal frequency	32.768KHz
2	振荡模式 Mode of vibration	AT Fundamental
3	负载电容 Load capacitance	12.5pF
4	调整频差 Frequency tolerance	±5x10 ⁻⁶ ppm(25±5℃)
5	温度频差 Frequency temperature characteristics	-0.04ppm/℃ ² (-40to+85℃)
6	谐振电阻 Equivalent series resistance	70K Ω max
7	静 电 容 Shunt capacitance	1pF Typ
8	绝缘电阻 Insulation resistance	500MΩmin./100±15VDC
10	激励电平 Drive level	0.1μw Typ
11	老 化 率 Aging	±3x10 ⁻⁶ ppm/year
12	贮存温度 Storage temperature range	-55℃to +125℃
13	测试仪器 Test Impedance Meter	S&A 250B

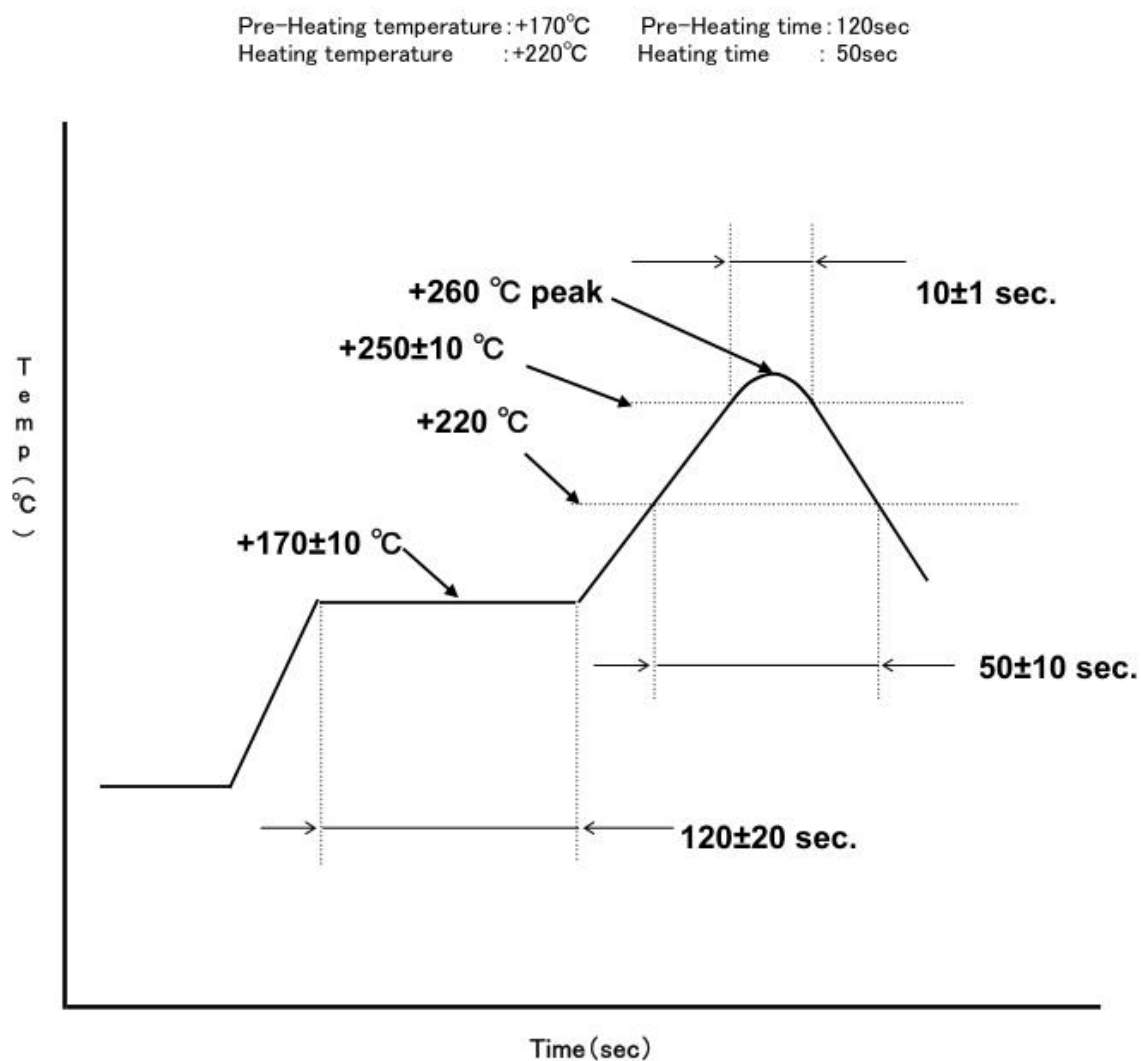
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2.机械特性 MECHANICAL CHARACTERISTICS

NO	测试项目 Test item	测试方法 Test Method	
1	跌落 Shock	100g dummy,Natural drop from 1500mm height on to the concrete,3 directions * 10 times	$*3\Delta f/f:\pm 8\times 10^{-6}$
2	振 动 Vibration	频率 Frequency: 10-55Hz 峰值 Amplitude : 0.75mm 周期 Cycle time : 15 min (10-500-10 Hz) 方向 Direction : 3 mutually perpendicular planes in each 2h	$*3\Delta f/f:\pm 3\times 10^{-6}$
3	耐焊接热 Soldering	For convention reflow soldering furnace(2 times).	$*3\Delta f/f:\pm 5\times 10^{-6}$
4	高温储存 High temperature storage	温度 Temperature : +125℃±5℃ 时间 Time : 1000 h±12h	$*3\Delta f/f:\pm 10\times 10^{-6}$
		温度 Temperature : +85℃±5℃ 时间 Time : 1000 h±12h	$*3\Delta f/f:\pm 7\times 10^{-6}$
5	低温储存 Low temperature storage	温度 Temperature : -55±5℃ 时间 Time : 1000 h±12h	$*3\Delta f/f:\pm 10\times 10^{-6}$
6	稳态湿热 High temperature and humidity	温度 Temperature : +85±2℃ 湿度 Humidity : 85% RH 时间 Time : 1000 h	$*3\Delta f/f:\pm 10\times 10^{-6}$
7	温度循环 Temperature cycle	-55℃←→+125° C 30 minutes at each temperature *100 cycles	$*3\Delta f/f:\pm 10\times 10^{-6}$

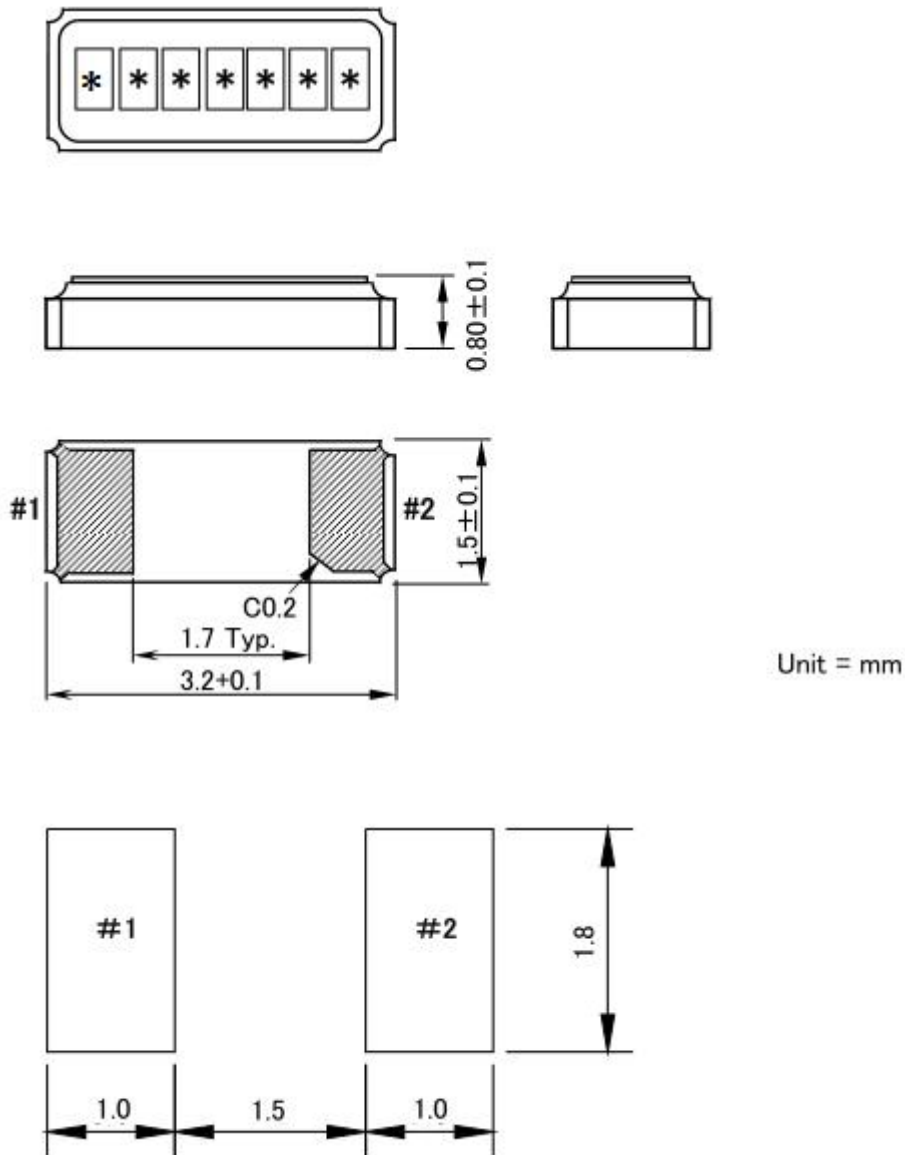
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3. 回流温度曲线 REFLOW PROFILE



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4. 外型尺寸 OUTLINE



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5. 编带规格 TAPING SPECIFICATION

1. Drawing of tape dimensions

- ① Carrier tape : Refer to page 8.
- ② Taping reel : Refer to page 9.

2. Material

- ① Carrier tape : PC black conductive
- ② Taping reel : PS conductive

3. Taping method

- (1) Taping shall be placed in tapes in such manner as to assure that marking of the components is visible as per Fig.1

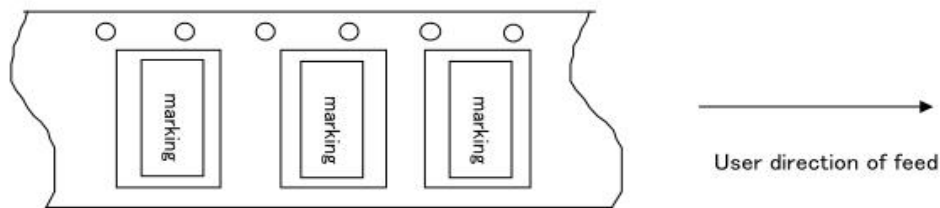


Fig. 1

(2) Reel

- ① On the side of reel there shall be more than 40 blocks of "No components".
- ② The beginning of Carrier Tape shall be bent vertically and hooked on groove of reel.

(3) Leader

- ① On the side of leader, there shall be more than 40 blocks of "No components"
- ② The length of Leader shall be over 400 mm.
- ③ The Length of Stick Tape for Cover Tape shall be about 100 mm and Stick Tape shall never be detached.

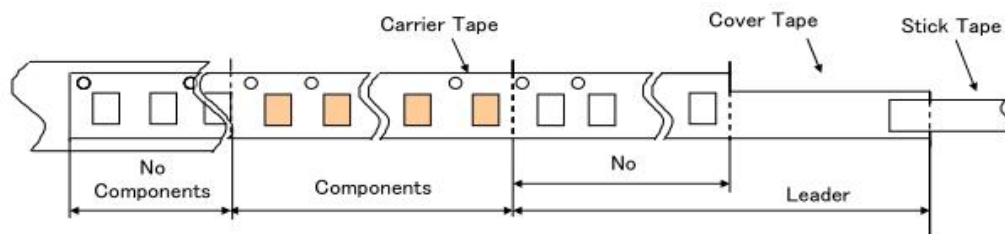


Fig. 2

User direction of feed

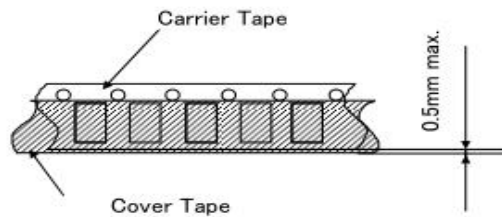
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6. 编带规格 TAPING SPECIFICATION

(4) Gap between Carrier Tape and Cover Tape

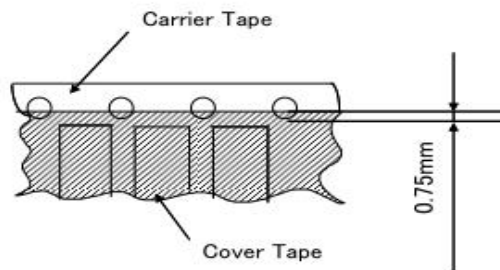
- ① Cover Tape protrudes from Carrier Tape by 0.5mm max.

Fig. 3



- ② Holes of Carrier Tape are covered with Cover Tape by 0.75mm max.

Fig. 4



(5) Peel strength

- ① The method of testing is done as shown below.
② The value of force is at the beginning of desealing.
③ The Cover Tape peel forth shall be 0.1~1.3N at a peel speed of 300±10mm/min.

Fig.5

