产品规格书

深圳市晶鹏源电子有限公司

产品	名称:	贴 片	晶(本谐	振	器
类	型:	5032	12.	000M	HZ	
客户	代码.					

客户确认	l	/	/

技术部	//_	
批准	审核	制表

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1. General item

Nominal frequency:12.000MHz

Vibration mode: AT Fund.

Operation temperature range:-20 ℃~+70 ℃

Storage temperature rang:-40 ℃~+85 ℃

Test machine: S&A 250B

Drive level: 1.0 µW

Load capacitance: 20pF

2. Electrical characteristics

Condition: 25±3℃ Relatively humidity ≤ 60%

2.1 Frequency tolerance: ± 20 ppm

2.2 Equivalent resistance: ≤40 \(\Omega\)

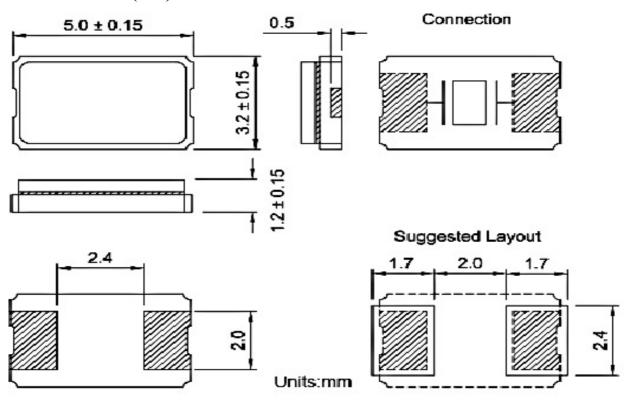
2.3 Temperature characteristics: ±30ppm

2.4 Shunt capacitance:≤7pF

2.5 Insulation resistance: \geq 500M Ω /100 \pm 15V DC

2.6 Aging characteristics: ±3ppm/year

3. Dimension (mm)



3. Reliability specification

3.1 Drop characteristics

Condition: height 50cm, 3 times, test after 1 hour

Equipment: S&A250B, thickness 3cm hard wood

Standard: frequency change: $\leq \pm 5$ ppm, Rr as specification

3.2 Shake characteristics

Condition: shake frequency 10~55Hz, cyc1~2 minutes, swing 1.5mm, direction x/y/z, all 30 minutes. Test after 1 hour

Equipment: S&A250B, test machine

Standard: frequency change: $\leq \pm 5$ ppm, Rr as specification

3.3 Airproof characteristics

Condition: put crystal into the pressure cabin with alcohol, keep pressure 0.4-0.5mpa 10 minutes, then take out and blow for 5 minutes

Equipment: IR machine

Standard: IR \geq 500 m Ω

3.4 Weld characteristics

Condition: 235±5°C 、3 seconds

Equipment: test machine

Standard: 90% adhibit tin ok

3.5 Humidity characteristics

Condition: $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$, humidity 90-95%, 250 hours.

Equipment: S&A250B, test cabin

Standard: frequency change: $\leq \pm 5$ ppm, Rr as specification

3.6 Low temperature characteristics

Condition: $-30^{\circ}\text{C} \pm 2^{\circ}\text{C}$, after 250 hours, put in room temperature 1 hour

Equipment: S&A250B, test machine

Standard: frequency change: $\leq \pm 5$ ppm, Rr as specification

3.7 High temperature characteristics

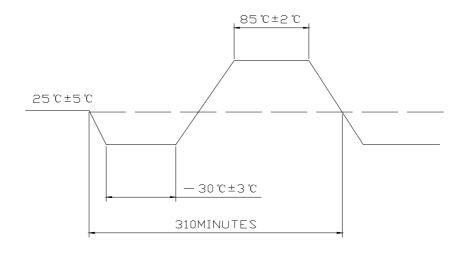
Condition: 85° C $\pm 2^{\circ}$ C, after 250 hours, put in room temperature 1 hour

Equipment: S&A250B, test machine

Standard: frequency change: $\leq \pm 5$ ppm, Rr as specification

3.8 Temperature cycling

Condition:



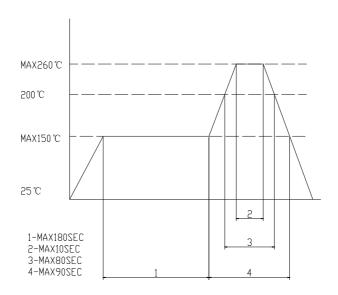
AFTER TEMPERATURE CYCLING

Equipment: S&A250B, test machine.

Standard: frequency change: $\leq \pm 5$ ppm, Rr as specification

3.9 Refluence examination

Condition:



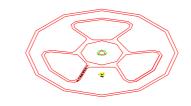
Equipment: S&A250B, test machine

Standard: frequency change: $\leq \pm 10$ ppm,

Rr as specification

4. Packing specification

1 0 0 0 P C S C R Y S T A L P U T I N P L A S T I C T U R N P L A T E



INNER BOX

