

产品规格书

深圳市晶鹏源电子有限公司

产品名称：贴片晶体谐振器

类 型：5032 8.000MHZ

客户代码：

客 户 确 认				___	/	___	/	___

技术部			___/___/___
批准	审核	制表	

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1. General item

Nominal frequency:**8.000MHz**

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: **±20ppm**

2.2 Equivalent resistance: ≤**60 Ω**

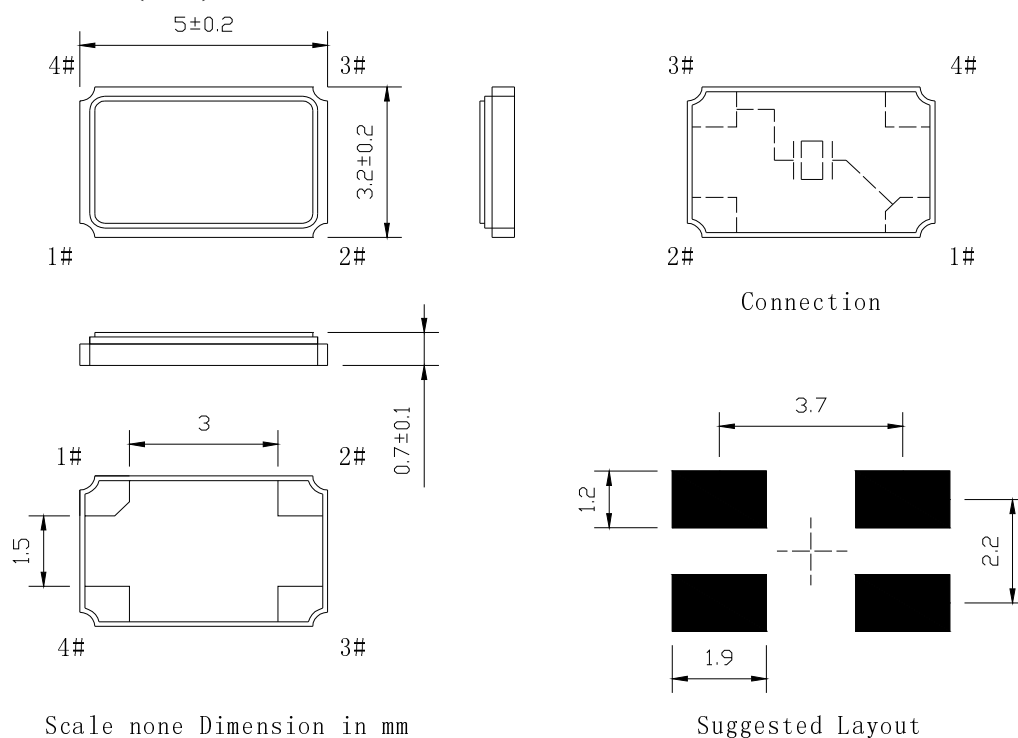
2.3 Temperature characteristics: **±30ppm**

2.4 Shunt capacitance: ≤**7pF**

2.5 Insulation resistance: ≥**500M Ω** / **100±15V_{DC}**

2.6 Aging characteristics: **±3ppm/year**

3.Dimension (mm)



4. Reliability specification

4.1 Drop characteristics

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

Equipment: S&A250B, thickness 3cm hard wood

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

4.2 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: $\leq \pm 5\text{ppm}$, Rr as specification

4.3 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 $\geq 500 \text{ m}\Omega$

4.4 Weld characteristics

Condition: $235 \pm 5^\circ\text{C}$ 、3 seconds

Equipment: test machine

Standard: 90% adhibit tin ok

4.5 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: $\leq \pm 5\text{ppm}$, Rr as specification

4.6 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: $\leq \pm 5\text{ppm}$, Rr as specification

4.7 High temperature characteristics

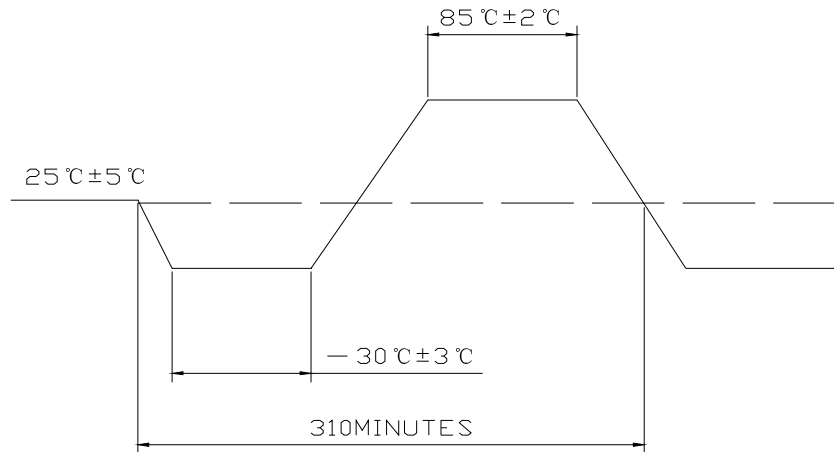
Condition: $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$, after 250 hours, put in room temperature 1 hour

Equipment: S&A250B, test machine

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

4.8 Temperature cycling

Condition:



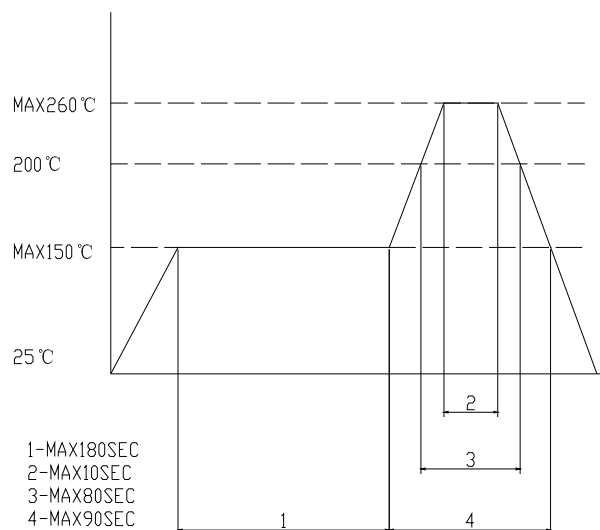
AFTER TEMPERATURE CYCLING

Equipment: S&A250B, test machine。

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

4.9 Refluence examination

Condition:

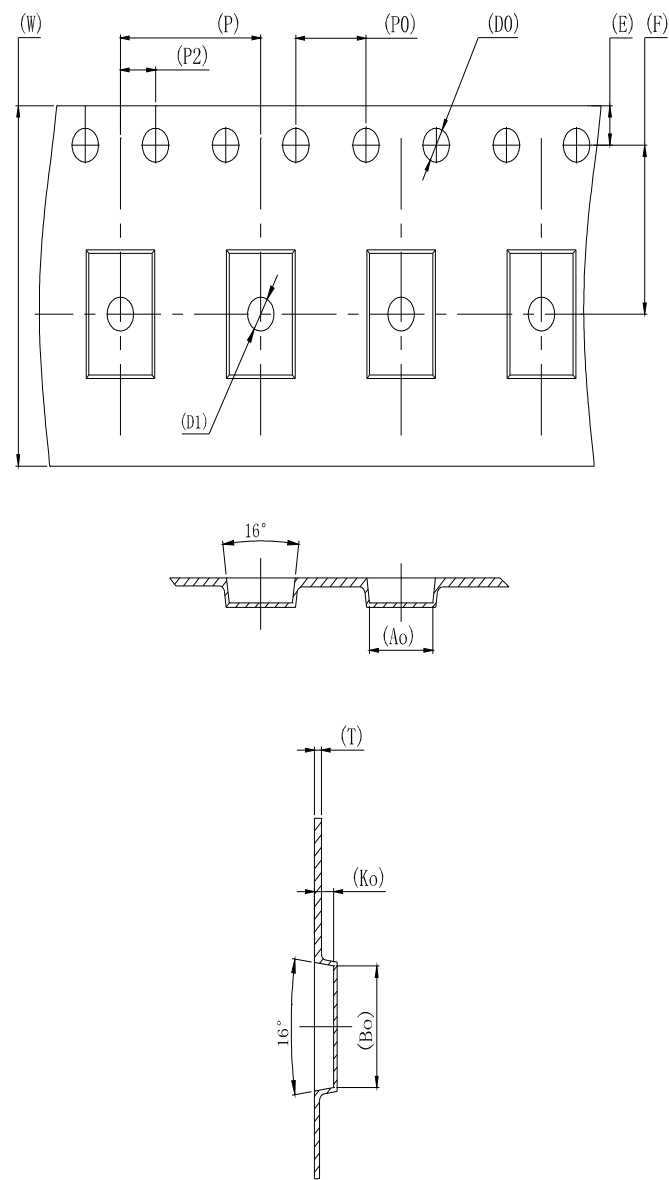


Equipment: S&A250B, test machine

Standard: frequency change: $\leq \pm 10\text{ppm}$,

Rr as specification

5. Packing specification

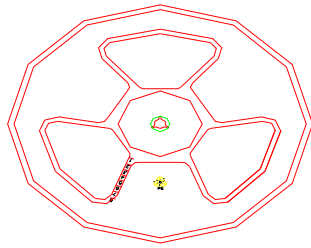


W	16.00±0.05	P	8.00±0.10	A0	3.60±0.10	B0	5.40±0.10
S		P0	4.00±0.10	A1		B1	
E	1.75±0.10	P2	2.00±0.10			B2	
F	7.50±0.10	D0	$\phi 1.50^{+0.10}_0$	K0	1.10±0.10		
T	0.35±0.05	D1	$\phi 1.50$ MIN	K1			

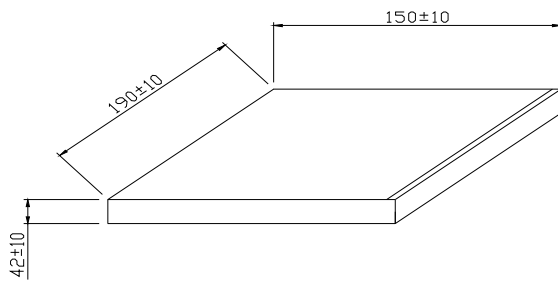
1000 PCS CRYSTAL PUT IN



PLASTIC TURNPLATE



INNER BOX



10 BOX PUT IN



CARTON

