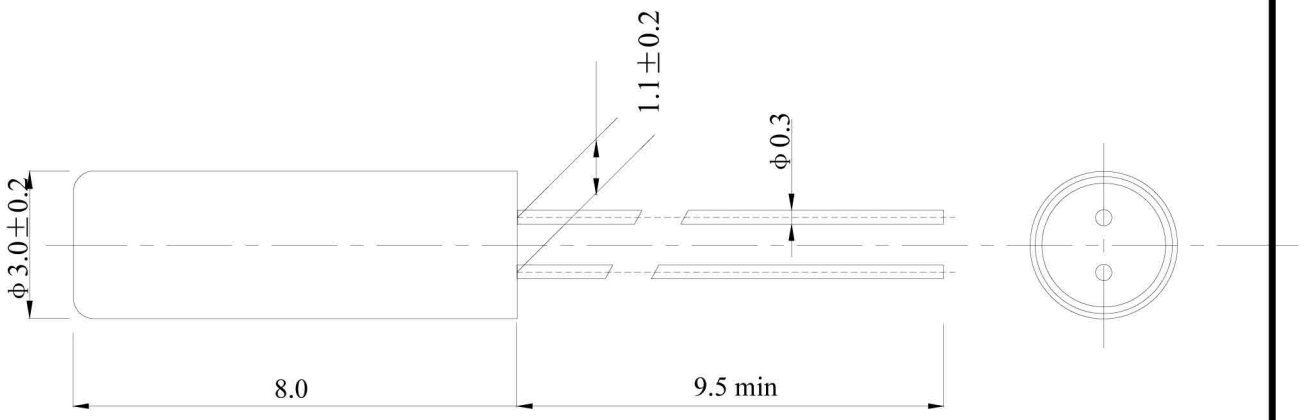
1. QUARTZ CRYSTAL UNIT SPECIFICATION

1.1. Frequency:	7.3728MHz
1.2. Mode of Oscillation	AT Fund.
1.3. Holder type :	AT38
1.4. Frequency tolerance:	±20ppm at 25°C ±2deg°C
1.5. Equivalent resistance（Rr）:	60Ω Max.
1.6. Operable temperature range:	-20°C To +70°C
1.7. Storage temperature range:	-40°C To +85°C
1.8. Frequency stability:	±20ppm at -20°C To +70°C
1.9. Loading capacitance (CL) :	18pF
1.10. Drive level:	10 uW Typical
1.11. Shunt Capacitance:	5.0pF MAX
1.12. Insulation resistance :	More than 100M ohms at DC 100V
1.13. Circuit:	Measured in S&A 250B
1.14. Aging:	Less than ±3 ppm/Year
1.15. Dimensions and marking	Refer to page.3

This test shall be performed under the conditions of temperature at 25°C± 2°C, humidity 60% max

2. MARKING & DIMENSIONS



3.MECHANICAL/ENVIRONMENTAL CHARACTERISTICS

NO.	项 目 ITEM	条 件 CONDITIONS	规 格 SPECIFICATIONS
1	漏气试验 Leaking Test	完全浸入 90±3°C 热水中 3 分钟。 Fully immersed into hot water at 90°C± 3°C for 3 minutes.	无气泡存在 no air bubble are visible.
2	跌落试验 Drop Tset	高度 50cm，自由落体与 3cm 木板上，3 次. dropping three times from the height of 50 cm onto hard wooden board of thickness more than 30mm.	频率变化±5PPM 以内,电阻变化±15%以内 The crystal must meet: |Δf|≤10ppm |ΔR|≤15%
3	振动试验 Vibration Test	频率 10~55Hz,振幅 1.5MM, 时间:每个方向 3 分钟。 Frequency: 10-55Hz , Amplitude 1.5mm 3 minutes in each of X,Y,Z 3 mutually perpendicular direction.	频率变化±5PPM 以内,电阻变化±15%以内 The crystal must meet: |Δf|≤10ppm |ΔR|≤15%
4	可 焊 性 Solderability Test	从引线末端至距底部 2MM 处放入 230°C±5°C 焊槽内，时间：2±0.5 秒。 The terminal lead wire is to be soaked in a 230°C±5°C tin trough for 2±0.5 seconds.	沾锡面≥90%.性能检验同振动 Tin over the wire≥90% The crystal must meet: |Δf|≤5ppm |ΔR|≤15%
5	耐低温性 Low Temperature Enduring	在-25°C±3°C 下,放置 48 小时,取出后在常温下恢复 2 小时。 The samples crystal is to be tested after being placed in the environment of -25°C±3°C for 2 hours, and recovered to room temperature.	性能检验同振动 The crystal must meet: ||Δf|≤5ppm |ΔR|≤15%
6	耐高温性 High Temperature Enduring	在+70°C±2°C 下放置 48 小时，取出后在常温下恢复 2 小时。 The samples crystal is to be tested after being heated at +70°C±2°C for 2 hours, and cooled to room temperature for 2 hours.	性能检验同振动 The crystal must meet: |Δf|≤5ppm |ΔR|≤15%
7	恒定湿热 Humidity	在 40±3°C,RH 93%±2%放置 48 小时,取出后恢复 2 小时。 The temperature is at 40±3°C, and at 93% ±2% RH after 48h, and cooled to room temperature for 2 hour..	外观无异常，性能检验同振动 The crystal must meet: |Δf|≤5ppm |ΔR|≤15%

8	耐焊接热 Resistance to Solder Heat	引线端子应插入 350±10℃的焊接槽中 3±0.5 秒或 260±5℃的焊接槽中 10±15 秒，测入深度为从引线末端至距底部 2MM 处，而后放在自然环境中 2 小时，再进行测试。 Lead terminals are immersed up to 1.5mm from resonator's body in soldering bath of 350±10℃ for 3±0.5 sec. And then resonator shall be measured after being placed in room temperature for 2 hour.	试验后，外观无异常， 性能检验同振动 The crystal must meet: $\lvert\Delta f\rvert \leqslant$ 5ppm $\lvert\Delta R\rvert \leqslant$ 15%