

# SPECIFICATION

Customer : QUARTZ

Applied To :

Product Name : Magnetic Buzzer

Model Name : DAP1206X-1953

## 2. General

2.1 Out-Diameter :  $\varnothing 12$  mm

外径:  $\varnothing 12$  mm

2.2 Height : 9.5 mm

高度: 9.5 mm

2.3 Weight : 2 g

重量: 2克

2.4 Operating Temperature range:

-25~+70℃ without loss of function

工作温度: -25~+70℃

2.5 Store Temperature range:

-40~+85℃ without loss of function

储藏温度: -40~+85℃

## 3. Electrical and Acoustic Characteristics.

Test condition : 15 ~ 35 ℃, 25% ~ 85% RH, 860~1060 mbar

测试条件: 15~35 ℃, 25%~85%RH , 860~1060mbar

	Items 项目	Specification 规格
1	Rated Voltage 额定电压	6V
2	Operating Voltage 工作电压	4~8V
3	Max.Rated Current 额定电流	40mA / 6V
4	Resonant Frequency 谐振频率	2.3± 0.3KHz
5	Min.Sound Pressure Level 额定声压	88dB/10cm
6	Case Material/Color 壳体材质/颜色	PBT/BLACK

## 4. Reliability Test

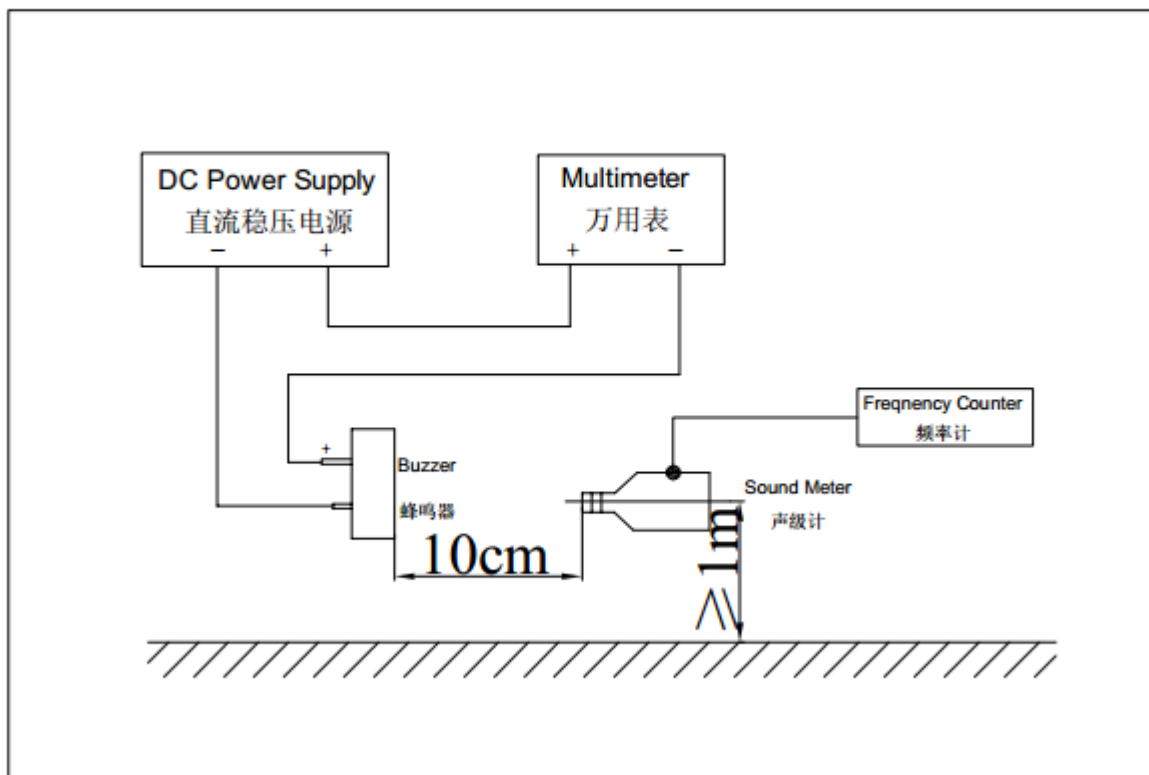
After test(1~7item), the transducer S.P.L. difference shall be within  $\pm 10\text{dB}$ , and the appearance not exist any change to be harmful to normal operation(e.g.cracks,rusts,damages and especially distortion).

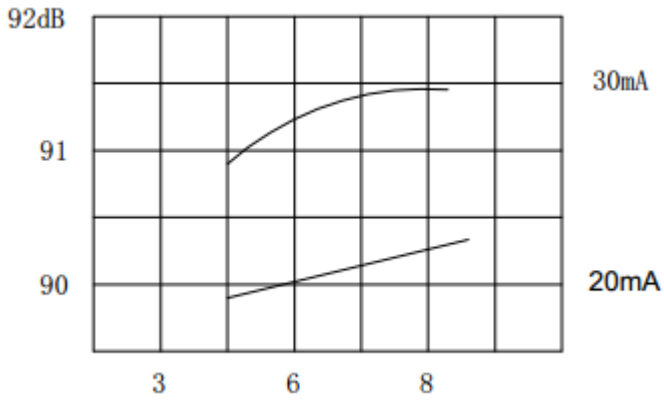
	Item	Specification
1	High Temperature Test 高温试验	<p>After being worked in a chamber with <math>+85\pm 2\text{ }^\circ\text{C}</math> for 2h and then being placed in natural condition for 2h, sounder shall be measured.</p> <p>将产品置于 <math>+85\pm 2\text{ }^\circ\text{C}</math> 试验箱中, 先工作 2 小时, 然后在正常大气压条件下恢复 2 小时后, 进行测量</p>
2	Low Temperature Test 低温试验	<p>First being worked in a chamber with <math>-30\pm 2\text{ }^\circ\text{C}</math> for 2h and then being placed in a chamber with <math>-30\pm 2\text{ }^\circ\text{C}</math> for 16h, finally being placed in natural condition for 2h, sounder shall be measured.</p> <p>将产品置于 <math>-30\pm 2\text{ }^\circ\text{C}</math> 试验箱中, 先工作 2 小时, 再放置 16 小时, 然后在正常大气压条件下恢复 2 小时后, 进行测量</p>
3	Humidity Test 潮湿试验	<p>After being placed in a chamber with 90 to 95%R.H. at <math>+40\pm 2\text{ }^\circ\text{C}</math> for 2 h and then being placed in natural condition for 2h, sounder shall be measured.</p> <p>将产品置于湿度为 90~95%R.H, 温度为 <math>40\pm 2\text{ }^\circ\text{C}</math> 试验箱中 2 小时, 然后在正常大气压条件下恢复 2 小时后, 进行测量</p>
4	Thermal Shock Test 热冲击试验	<p>After being worked in a chamber at <math>+85\text{ }^\circ\text{C}</math> for 1 hour, then sounder shall be placed in a chamber at <math>-30\text{ }^\circ\text{C}</math> for 1 hour(1 cycle is the below diagram).</p> <p>After 6 above cycles, sounder shall be measured after being placed in natural condition for 1 hour.</p> <p>将产品置于 <math>+85\pm 2\text{ }^\circ\text{C}</math> 试验箱中, 先工作 1 小时, 然后将产品置于 <math>-30\pm 2\text{ }^\circ\text{C}</math> 试验箱中, 再工作 1 小时, 经过 6 个循环后, 在正常大气压条件下恢复 1 小时, 进行测量</p> <div data-bbox="571 1503 1018 1664" style="text-align: center;"> <p>The diagram illustrates a thermal shock cycle. The vertical axis represents temperature in degrees Celsius, with markers at +80 and -30. The horizontal axis represents time. The cycle consists of a 1-hour dwell at +80°C, followed by a 20-second ramp down to -30°C, and then a 1-hour dwell at -30°C. This sequence is repeated for 6 cycles.</p> </div>

## 4. Reliability Test

	Item	Specification
5	Vibration Resistance 振动试验	Sounder shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 30Hz band of vibration frequency to each of 3 perpendicular directions for 2 hour. 振幅为1.5mm，频率为10~30Hz，三个不同轴方向各振动2小时，试验后进行测量。
6	Drop Test 跌落试验	Sounder packed in the carton are dropped in six direction from the height of 80cm to the concrete floor. 跌落高度80cm,6个不同方向整箱跌落到水泥地，试验后进行测量。
7	Solderability 可焊性试验	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+260 \pm 5^\circ \text{C}$ for $3 \pm 0.5$ seconds. 插针浸入松香5秒，然后再浸入 $+260 \pm 5^\circ \text{C}$ 的锡炉中 $3 \pm 0.5$ 秒，插针表面应覆盖一层光滑明亮的焊料。
8	Terminal Strength Pulling 插针强度试验	The force 10 seconds of 9.8N is applied to each terminal in axial direction. 插针应承受9.8N拉力，拉力时间10秒，插针无松动和脱落等现象。

## 5. Measurement Block Diagram & Response curve





## 7. Dimensions

