

**JANLITA**

# **Janlita Technology**

**Buzzer Department**



**Customer Name:**

**Customer Model:**

**Customer P/N:**

**Janlita P/N:JBW5530X-1530-L140**

JANLITA		CUSTOMER APPROVAL
工程		
品质		
批准		

JANLITA TECHNOLOGY DEVELOPMENT CO.,LTD

Tel:+86-755-28982260 28982669

Fax:+86-755-28982619

Http://www.janlita.com

Email:janlita@janlita.com



## Contents

<b>1. Scope (適用)</b> .....	<b>4</b>
<b>2. Part Number (料號)</b> .....	<b>4</b>
<b>3. Electrical characteristics (性能參數)</b> .....	<b>4</b>
3.1 standard test conditions .....	4
3.2 Operating Temperature Range.....	4
3.3 Storage Temperature Range.....	4
<b>4. DIMENSIONS (尺寸)</b> .....	<b>5</b>
<b>5. CHARACTERISTIC RESPONSE (特性曲線圖)</b> .....	<b>5</b>
<b>6. TEST METHOD (測試方法)</b> .....	<b>6</b>
<b>7. RELIABILITY TEST (可靠性試驗項目)</b> .....	<b>6、7、8</b>
<b>8. Packaging Standard (包裝規格)</b> .....	<b>8</b>

## 1. Scope (适用)

This specification is applicable to passive piezoelectric buzzer products of JANLITA.

本规格适用于捷力泰无源压电式蜂鸣器产品

## 2. Part Number (料号)

**JBW5530X-1530-L140**

## 3. Electrical characteristics (性能参数)

**3.1 standard test conditions: Temp. = 25 ± 3 °C Room Humidity = 60±10 %RH**

标准测试条件: 温度25±3℃, 湿度60±10% R.H.

Technical Terms 电性项目	Limits 参数范围
Resonant Frequency(KHz) 谐振频率	3.0
Maximum Voltage(Vp-p) 最大电压	30
Capacitance at 120 Hz (nf) 自由电容	40±30%
Max. Current Consumption at Rated Voltage(mA) 最大消耗电流	Max.50mA ,At 3.0KHz 50% duty Square Wave 15Vp-p
Min. Sound Output at 30cm at Rated Voltage(dB) 最小声音输出	Min.112dB ,At 3.0KHz 50% duty Square Wave 15Vp-p
Max. Current Consumption at Rated Voltage(mA) 最大消耗电流	Max.70mA ,At 3.0KHz 50% duty Square Wave 27Vp-p
Min. Sound Output at 30cm at Rated Voltage(dB) 最小声音输出	Min.116dB ,At 3.0KHz 50% duty Square Wave 27Vp-p
Housing Material 外壳材质	ABS(Black/Red/Yellow)
Dimensions (mm)尺寸	See the Drawing
Classification of waterproof 防水等级 (正面)	IPX6

**3.2 Operating Temperature Range -20~to+60°C**

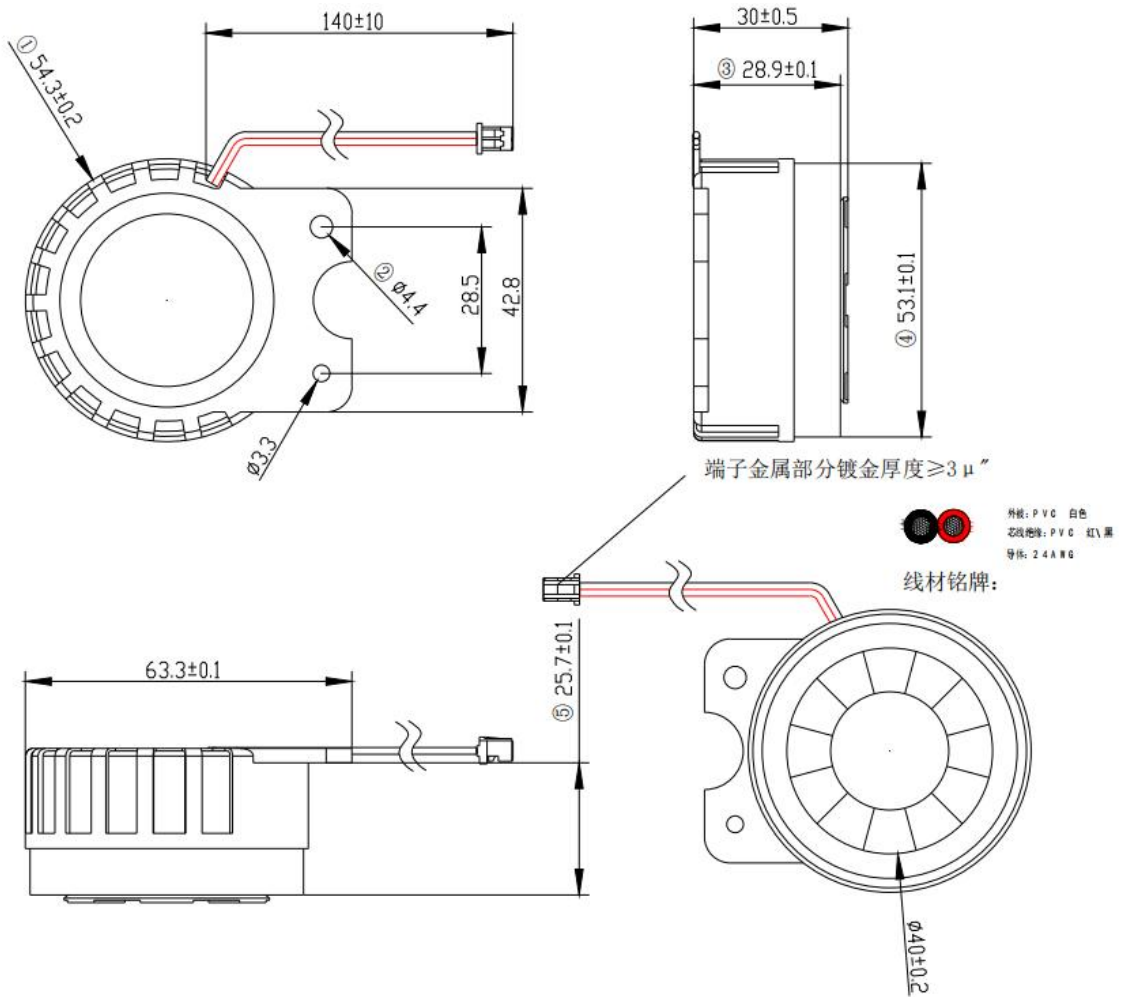
操作温度范围 -20~to+60°C

**3.3 Storage Temperature Range -30~to+70°C**

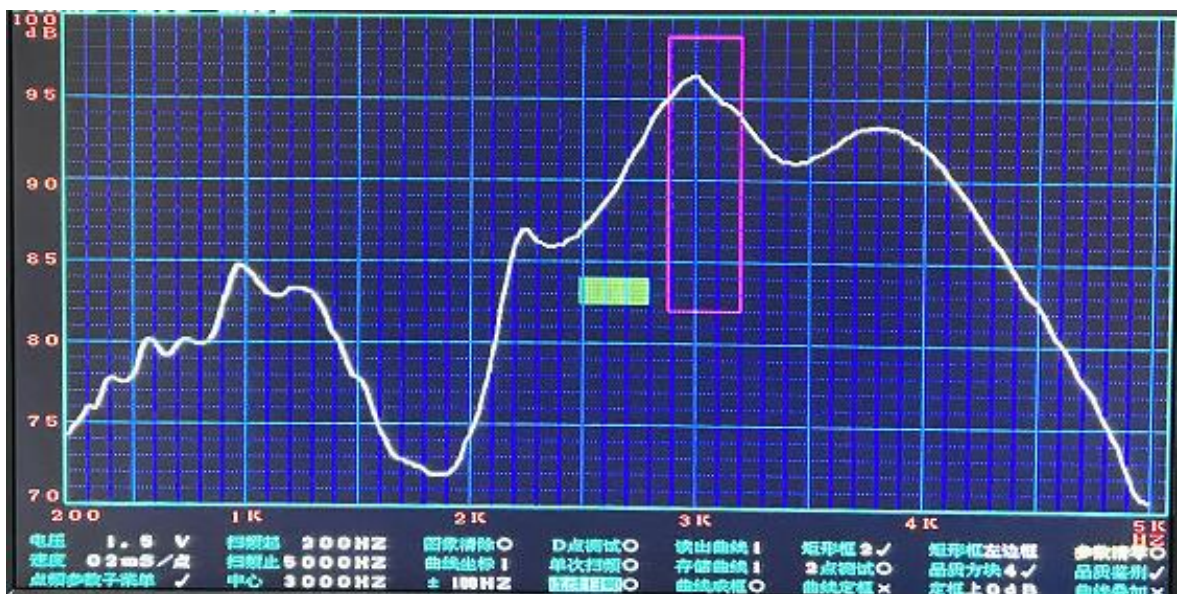
储存温度范围 -30~to+70°C

## 4. DIMENSIONS (尺寸)

Unit: mm 未注公差:±0.5

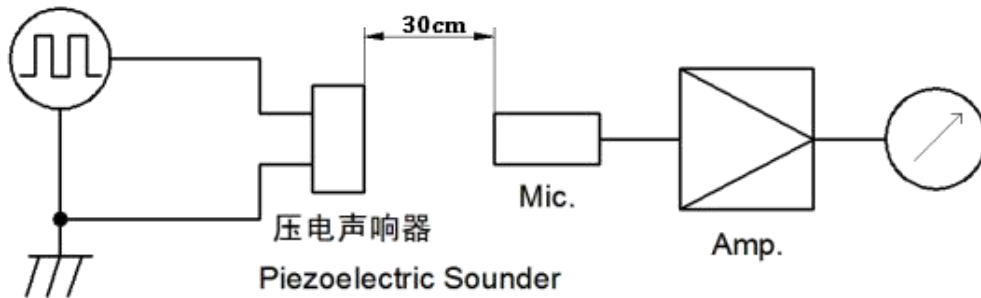


## 5. CHARACTERISTIC RESPONSE (特性曲线图)



## 6. TEST METHOD (测试方法)

SOUND PRESSURE LEVEL, CONSUMPTION (声压测试线路图)



MIC: ND10 普通声级计或等同品  
MIC: ND10 Sound Meter or equivalent

信号发生器: DF1641D或等同品  
Signal Generator: DF1641D or equivalent

## 7. RELIABILITY TEST (可靠性试验项目)

NO	ITEM (项目)	METHOD OF TEST (试验方法)	VARLANCE AFTER CONDITIONIN (标准)
1.	Dry Heat Test (Storage) 高温放置试验	After being placed in a chamber with $+85\pm 2^{\circ}\text{C}$ for 96 hours and then Being placed in natural condition for 2 hours, buzzer shall Be measured 在 $+70\pm 2^{\circ}\text{C}$ 的温度里放置 96 小时后,再在室温下放置 2 小时后测试	After the test the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall be initial value $\pm 10\text{dB}$ 试验后外观正常, SPL 与初始值相比变化在 $\pm 10\text{dB}$ 范围内
2.	Cold Test (Storage) 低温放置试验	After being placed in a chamber with $-40\pm 2^{\circ}\text{C}$ for 96 hours and then Being placed in natural condition for 2 hours, buzzer shall Be measured 在 $-40\pm 2^{\circ}\text{C}$ 的温湿里放置 96 小时后, 再在室温下放置 2 小时后测试	
3.	Temperature Cycle Test 温度循环试验	Make the test for 5 cycles without applying power as ( $-40\pm 2^{\circ}\text{C}$ for 30 minutes $\rightarrow 20\pm 2^{\circ}\text{C}$ for 15 minutes $\rightarrow 70\pm 2^{\circ}\text{C}$ for 30 minutes $\rightarrow 20\pm 2^{\circ}\text{C}$ for 15 minutes) then expose to the room temperature for 4 hours 不接电源做 5 个周期试验( $-40\pm 2^{\circ}\text{C}$ for 30 分钟 $\rightarrow 20\pm 2^{\circ}\text{C}$ for 15 分钟 $\rightarrow 70\pm 2^{\circ}\text{C}$ for 30 分钟	

		→20±2℃ for 15 分钟), 然后室温下放置 4 小时再测试	
4.	Humidity Test 耐湿性试验	<p>After being placed in a chamber with 90 to 95%R.H. at +40±2℃ for 96 hours and then being placed in natural condition for 2 hours, Buzzer shall be measured</p> <p>在湿度为 90—95%，温度为+40±2℃的温湿箱里放置 96 小时后，再在室温下放置 2 小时后测试</p>	
5.	Operation life test 工作寿命试验	<p>Room temperature life test. 96 hours continuous at room temperature with the rated voltage</p> <p>在室温下加额定电压连续工作 96 小时</p>	
6.	Vibration Resistant 耐振动性	<p>Buzzer shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 55Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours</p> <p>振动频率 10~55Hz, 振幅为 1.5mm, 朝 X、Y、Z 轴三个方向振动 2 小时后测试</p>	
7.	Drop Test 跌落试验	<p>Drop a product naturally from the height of 500mm onto the surface of 100mm thick wooden board. Two directions: This is upper and side of the product are to be applied for this drop test tespectively once</p> <p>500mm 高度将产品自然跌落在 100mm 厚板上按正、侧面方向各做二次跌落试验，观察此产品能否承受跌落试验。</p>	
8.	Terminal Strength Pulling 引线/针脚强度试验	<p>The force 10 seconds of 1N is applied to each terminal in axial direction.no looseness and falling off.</p> <p>引线/针脚应承受 10N 拉力，拉力时间 10 秒，引线无松动和脱落等现象。</p>	

9.	Gas leakage test 气密性试验	The front of the alarm has undergone the IPX6 air tightness test and shall bear an air pressure of 6.5-8Kpa with a leakage value of 0.035KPa. 报警器正面经过 IPX6 气密性测试，应承受气压 6.5-8Kpa，泄漏值 0.035KPa。	
----	---------------------------	--	--

## 8. Packaging Standard (包装规格)

