

HXD®

## 分体式无源蜂鸣器

技术要求						外形图				
型号 Type	HC-12085									
额定电压 Rated Voltage	5V									
线圈电阻 Coil Resistance	$42 \pm 3\Omega$									
额定电流 Rated Current	$\leq 30\text{mA}$									
声压电平 Sound Output	$\geq 80 \pm 5\text{dB}$									
谐振频率 Resonant Frequency	$2048 \pm 100\text{Hz}$									
工作温度 Operating Temp	$-20 \sim +45^\circ\text{C}$									
储存温度 Storage Temp	$-20 \sim +60^\circ\text{C}$									
电性能测试						1				
No	1	2	3	4	5	6	7	8	9	10
mA	30	30	31	30	30	30	30	30	30	30
dB	81	82	82	83	82	82	82	82	83	84
Hz	2048HZ									
判定	合格									
备注	工作时间 $\geq 1\text{S}$ , 焊接温度 $\leq 180^\circ\text{C}$ , 焊接时间 $\leq 2\text{S}$ 。 声贝测试说明: 常规测试 0.1m 距离声音在 $80\text{dB} \pm 5$ , 1m 距离声音在 $75\text{dB} \pm 5$									

## 焊接参数 Soldering process

Buzzer Soldering process		Soldering Parameter		
		Temp(°C)	Time(Sec.)	Times
Lead Free	Manual soldering	180±10	1 - 2	2-3

## 可靠性試驗 Reliability test

在前 6 項試驗后，声响器的声级变化值在±10dB 之内，外观无变化（例如：开裂，氧化，损伤，变形等现象）

After test(1-6 item), the transducer S.P.L. difference shall be within ±10dB, and the appearance not exist any change to be harmful to normal operation(e.g. cracks, rusts, damages and especially distortion)

项目 Item	内容 Content
<p style="text-align: center;">高温试验 HightemperatureTest</p>	<p>产品置于 55±2°C 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> <p>After being worked in a chamber at ±80±2°C for 2h and then being placed in natural condition for 2h, sounder shall be measured.</p>
<p style="text-align: center;">低温试验 LowTemperatureTest</p>	<p>产品置于-20±2°C 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> <p>First being worked in chamber at -20±2°C for 2h and then being placed in a chamber at -20±2°C for 16h, finally being placed in natural condition for 2h, sounder shall be measured.</p>
<p style="text-align: center;">恒湿试验 Humidity Test</p>	<p>产品置于温度为 60~80%R.H，温度为 40±2°C 试验箱中 48 小时，然后在正常大气压条件下恢复 2 小时后，进行测量。</p> <p>After being placed in chamber with 60 to 80%R.H. at 40±2°C for 48h and then being placed in natural condition for 2h, sounder shall be measured.</p>

<p>振动试验 Vibration Test</p>	<p>振幅为 0.75mm，频率为 10~30~10Hz,三个不同轴方向各振动 1 小时，试验后测量。 Sounder shall be measured after being applied vibration of amplitude of 0.75mm with 10to30 to10Hz band of vibrationfrequency to each of 3 perpendicular directions for 1hour.</p>
<p>自由落体试验 Freely Falling Test</p>	<p>在 0.8 米高处,将产品三方向自由落体在木板上,试验后测量。 Sounder shall be measured after freely falling the products from 0.8m high to the wooden board with three sides per time.</p>
<p>碰撞试验 Collision Test</p>	<p>加速度 <math>100 \pm 10\text{m/s}^2</math>，脉冲持续时间 16ms,重复频率 1~3 次/min,次数 <math>1000 \pm 10</math> 次，试验后测量。 Sounder shall be measured after the test of acceleration <math>100 \pm 10\text{m/s}^2</math>, in pulse lasting time 16ms, repeat frequency 1~3/min and time <math>1000 \pm 10</math>.</p>
<p>可焊性试验 Solderability</p>	<p>针脚浸入松香焊剂 1 秒，然后再浸入 <math>180 \pm 5^\circ\text{C}</math> 的浸锡锅中 <math>1 \pm 0.5</math> 秒，针脚表面应覆盖一层光滑明亮的焊料。 Lead terminals are immersed in rosin for 1 seconds and then immersed in solder bath at <math>+260 \pm 5^\circ\text{C}</math> for <math>1 \pm 0.5</math> seconds, terminals should be covered with the clean solder.</p>
<p>插针强度试验 Terminal Strength Pulling</p>	<p>针脚应承受 5N 拉力，拉力时间 10 秒，针脚无松动和脱落等现象。 The force 10 seconds of 5N is applied to each terminal in axial direction no looseness and falling off.</p>