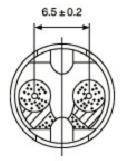
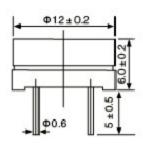
## HSD-1206W1.5

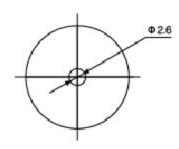
# 1 · Electrical Characteristics

型号 <i>Typ</i> e	HSD-1206W03
额定电压 Rated Voltage DC(V)	3
工作电压 Operating Voltage DC(V)	1.5-5
最大电流 Rated Current (mA)	Мах30
直流电阻 Coil Resistance (Ω)	16±2
输出音压 Sound Pressure Level (dB)	Min80/10cm
谐振频率 Resonant Frequency (Hz)	2048
工作温度 Operating Temperature (で)	-20 T ~ +70 T
材质 Material	ABS

## 2. Dimension:Unit(mm)







## 样品测试报告 Sample Test Report

#### HSD-1206W03

样品名称 Sample Description:	908
--------------------------	-----

客户 Customer:

样品数量 Sample Qty: 10pcs 测试数量 Test Qty:10pcs

技术指标 Specification: S.P.L≥80dB at 2048Hz at 10cm/1.5V Sine Wave

Operating Voltage DC(V)=1.5v~3

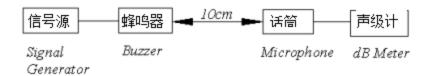
Rated Current=30mA max Coil Resistance=16 ±2Q

#### 测试数据 Test Date:

NO.	S.P.L [dB]	Rated Current [mA]	Coil Resistance [Ω]	A&D	NO.	S.P.L [dB]	Rated Current [mA]	Coil Resistance [Ω]	A&D
1.				OK	11.				OK
2.				OK	12.				OK
3.				OK	13.				OK
4.				OK	14.				OK
5.				OK	15.				OK
6.				OK	16.				OK
7.				OK	17.				OK
8.				OK	18.				OK
9.				OK	19.				OK
10.				OK	20.				OK

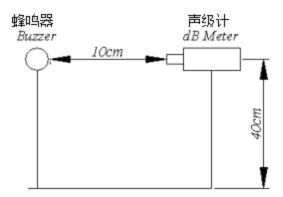
### 1. 产品测试仪连接:

Connection Diagram Of Testing Apparatus:



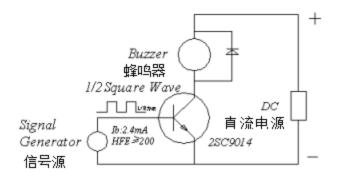
### 2.产品测试方法:

Testing Method:



#### 3.驱动电路:

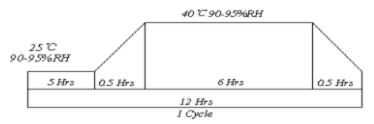
Circuit Diagram :



## 可靠性试验 RELIABILITY TEST

	T	
试验项目 ITEM	测试方法 METHOD OF TEST	标准 STANDARD
高温试验 Dry Heat Test	+70°C±2°C, 96h, 恢复2小时后测量 After being placed in a chamber with +70±2°C for 96 hours and then being placed in natural condition for 2 hours, sounder shall be measured.	试验后所有指标都满足 All specification must be satisfied after the test.
低温试验 Cold Test	-20℃±2℃, 96h, 恢复2小时后测量 After being placed in a chamber with -20±2℃ for 96 hours and then being placed in natural condition for 2 hours, sounder shall be measured.	试验后所有指标都满足 All specification must be satisfied after the test.
恒定湿热试验 Humidity Test	将产品置于+40°C±2°C,相对湿度保持在90%-95%中的环境中放置96h,恢复2小时后测量. (见图 FIG.1) After being placed in a chamber with, 90%-95%R.H. at +40°C±2°C for 96 hours and then being placed in natural condition for 2 hours, sounder shall be measured. (Attached FIG.1)	试验后所有指标都满足 All specification must be satisfied after the test.
温度变化试验 Temperature Cycle Test	产品在- $20^{\circ}$ C的试验箱和温度为+ $70^{\circ}$ C的试验箱各放置 $30$ 分钟,为一次温度循环。产品承受 $5$ 次温度循环后,放置 $2h$ 后进行测量(见图 FIG.2)  After being placed in a chamber at - $20$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ for $30$ minutes, sounder shall be placed at room temperature(+ $20$ $^{\circ}$ ). After 15 minutes at this temperature, sounder shall be placed in a chamber at + $70$ $^{\circ}$ $^{$	试验后所有指标都满足 All specification must be satisfied after the test ·
振动试验 Vibration Test	频率 10-55-10(Hz), 单振幅: 1.5 (mm) 扫频时间 1min,振动时间 30min(见图 FIG.3) Sounder shall be measured after being applied vibration of amplitude of 1.5mm with 10-55Hz band of vibration frequency for 30 minutes. Sweep time is 1 minute. (Attached FIG.3)	试验后所有指标都满足. All specification must be satisfied after the test.
碰撞试验 Shock Test	X,Y,Z 三个方向分别承受 100G 的冲力,每向各冲击 3 次 Sounder shall be measured after being applied shock (100G) for each three mutually perpendicular directions to each of 3 times.	试验后所有指标都满足 All specification must be satisfied after the test.
插针的抗拉强度试验 Terminal Strength Pulling Test	插针承受 5 牛顿拉力,负荷时间 5s,然后进行检查,不出现焊点脱落断裂现象 The force 5 seconds of 5N is applied to each terminal. No visible damage and cutting off.	试验后所有指标都满足. All specification must be satisfied after the test.
可焊性试验 Solder ability Test	焊锡温度 255℃±5℃,浸润时间为 3±0.5s,试验后采用目测的方法检查浸润,表面焊锡的浸润情况 Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +255±5℃ for 3±0.5 seconds.	试验后所有指标都满足. All specification must be satisfied after the test.

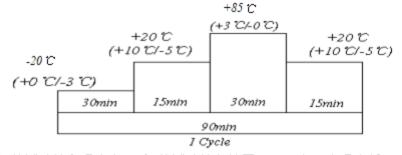




将产品置于+40℃±2℃,相对湿度保持在90%-95%中的环境中放置96h,恢复2h 后测量(见图FIG.1)

After being placed in a chamber with, 90%-95%R.H. at +40  $^{\circ}C\pm 2$   $^{\circ}$ Cfor 96hours and then being placed in natural condition for 2 hours, sounder shall be measured (Attached FIG.1)

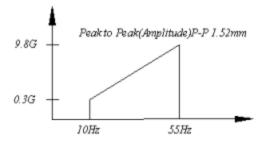
#### FIG.2



产品在-20℃的试验箱和温度为+70℃的试验箱各放置30min,为一次温度循环。 产品承受5次温度循环后,放置2h后进行测量(见图FIG.2)

After being placed in a chamber at -20  $\mathbb{C}\pm2$   $\mathbb{C}$  for 30 minutes, sounder shall be placed at room temperature (+20  $\mathbb{C}$ ). After 15 minutes at this temperature, sounder shall be placed in a chamber at +70  $\mathbb{C}\pm2$   $\mathbb{C}$ . After 30 minutes at this temperature , sounder shall be returned to room tem-perature (+20  $\mathbb{C}$ ) for 15 minutes. After 5 above cycles, sounder shall be measured after being placed in natural condition for 2 hours (Attached FIG.2)

FIG.3



频率10-55-10(Hz),单振幅: 1.5(mm)扫频时间1min,振动时间30min (见图FIG.3)。

Sounder shall be measured after being applied vibration of amplitude of 1.5mm with 10-55Hz band of vibration frequency for 30 minutes. Sweep time is 1 minute. (Attached FIG.3)

