

承 认 书

NO:

SPECIFICATION

客户/ <i>Customer</i>	
客户型号/ <i>User's Model No.</i>	
本司型号/ <i>Part. No.</i>	FBMT9650S-5V
数量/ <i>Quantity</i>	

如本样品被认可，请签核回传

Please send one back with signature upon approval of sample

NINGBO BEST GROUP CO., LTD

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China

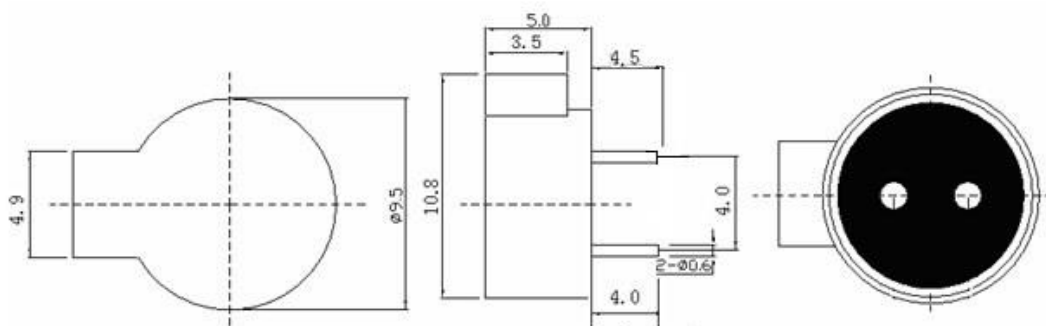
制作 <i>Drafted By</i>	审核 <i>Checked By</i>	批准 <i>Approved By</i>

FBMT9650S-5V

1. Electrical Characteristics

型号 <i>Type</i>		<i>FBMT9650S-5V</i>
额定电压 <i>Rated Voltage</i> <i>DC(V)</i>		5
工作电压 <i>Operating Voltage</i> <i>DC(V)</i>		3 - 7
最大电流 <i>Rated Current</i> (<i>mA</i>)		Max60
直流电阻 <i>Coil Resistance</i> (Ω)		25 \pm 3
输出音压 <i>Sound Pressure Level</i> (<i>dB</i>)		Min85/10cm
谐振频率 <i>Resonant Frequency</i> (<i>Hz</i>)		2731
工作温度 <i>Operating Temperature</i> ($^{\circ}\text{C}$)		-20 $^{\circ}\text{C}$ ~ +70 $^{\circ}\text{C}$
材质 <i>Material</i>		PBT

2. Dimension:Unit (mm)

DIMENSIONS Unit:mm Tolerance: ± 0.5 mm

样品测试报告 *Sample Test Report*

FBMT9650S-5V

样品名称 *Sample Description*: 蜂鸣器

客户 *Customer*:

样品数量 *Sample Qty*: 10pcs

测试数量 *Test Qty*: 10pcs

技术指标 *Specification*: $S.P.L \geq 85dB$ at 2731Hz at 10cm/5V Sine Wave

Operating Voltage DC(V)=3~7

Rated Current=60mA max Coil Resistance= $42 \pm 3\Omega$

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					
2.				OK					
3.				OK					
4.				OK					
5.				OK					
6.				OK					
7.				OK					
8.				OK					
9.				OK					
10.				OK					

测试结果 *Test Result*:

合格 *Pass* []

不合格 *Fail* []

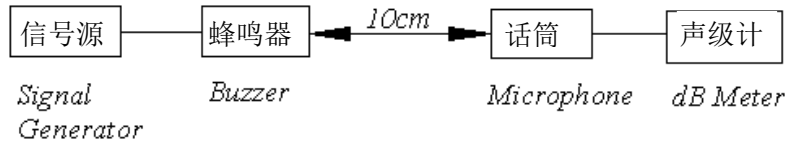
测试人员 *Inspector*:

确认 *Confirmed*:

测试日期 *Test Date*: 2026/4/15

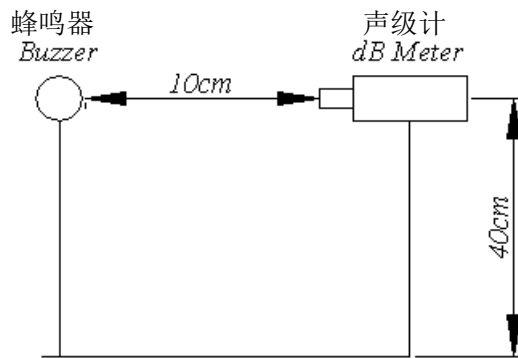
1. 产品测试仪连接:

Connection Diagram Of Testing Apparatus:



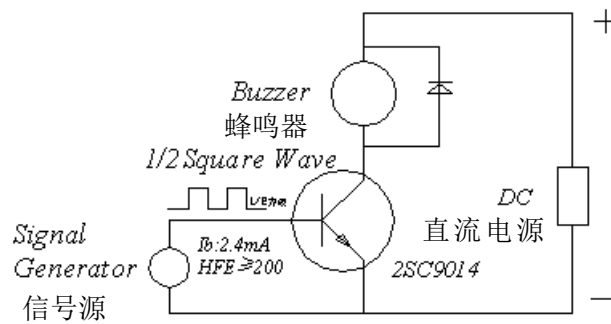
2. 产品测试方法:

Testing Method:



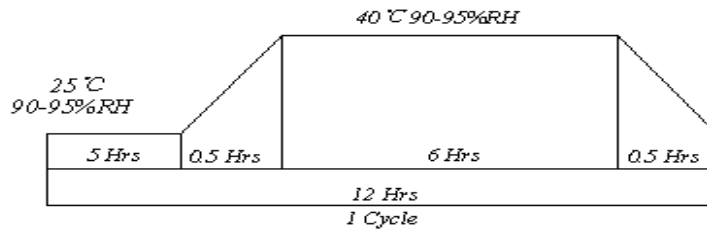
3. 驱动电路:

Circuit Diagram:



试验项目 ITEM	测试方法 METHOD OF TEST	标准 STANDARD
高温试验 Dry Heat Test	+70℃±2℃, 96h, 恢复 2 小时后测量 <i>After being placed in a chamber with +70±2℃ for 96 hours and then being placed in natural condition for 2 hours, sounder shall be measured.</i>	试验后所有指标都满足 <i>All specification must be satisfied after the test.</i>
低温试验 Cold Test	-20℃±2℃, 96h, 恢复 2 小时后测量 <i>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.</i>	试验后所有指标都满足 <i>All specification must be satisfied after the test.</i>
恒定湿热试验 Humidity 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 2 小时后测量。 (见图 FIG.1) <i>After being placed in a chamber with, 90%-95%R.H. at +40℃±2℃ for 96 hours and then being placed in natural condition for 2 hours, sounder shall be measured.</i> (Attached FIG.1)	试验后所有指标都满足 <i>All specification must be satisfied after the test.</i>
温度变化试验 Temperature Cycle Test	产品在-20℃的试验箱和温度为+70℃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) <i>After being placed in a chamber at -20℃±2℃ for 30 minutes, sounder shall be placed at room temperature(+20℃). After 15 minutes at this temperature, sounder shall be placed in a chamber at +70℃±2℃. After 30 minutes at this temperature, sounder shall be returned to room temperature(+20℃) for 15 minutes. After 5 above cycles, sounder shall be measured after being placed in natural condition for 2 hours. (Attached FIG.2)</i>	试验后所有指标都满足 <i>All specification must be satisfied after the test</i>
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) <i>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)</i>	试验后所有指标都满足。 <i>All specification must be satisfied after the test.</i>
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 <i>Sounder shall be measured after being applied shock (100G) for each three mutually perpendicular directions to each of 3 times.</i>	试验后所有指标都满足 <i>All specification must be satisfied after the test.</i>
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 <i>The force 5 seconds of 5N is applied to each terminal. No visible damage and cutting off.</i>	试验后所有指标都满足。 <i>All specification must be satisfied after the test.</i>
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 <i>Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +255±5℃ for 3±0.5 seconds.</i>	试验后所有指标都满足。 <i>All specification must be satisfied after the test.</i>

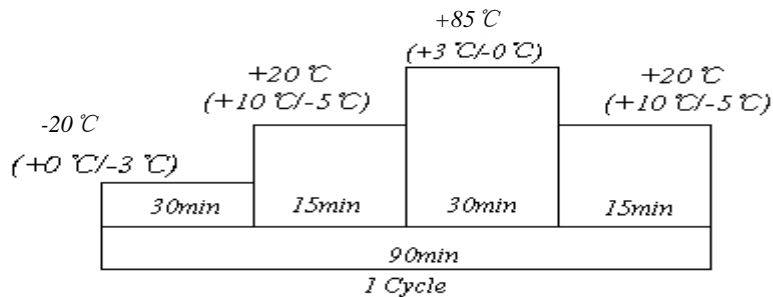
FIG.1



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2h后测量（见图FIG. 1）

After being placed in a chamber with,90%-95%R.H. at +40 °C ±2 °C for 96hours and then being placed in natural condition for 2 hours,sounder shall be measured (Attached FIG. 1)

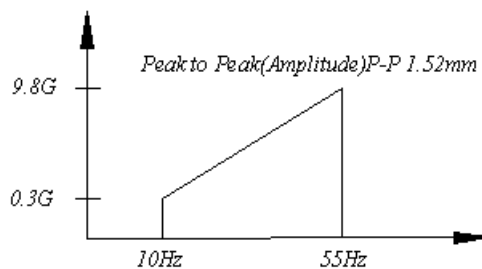
FIG.2



产品在-20°C的试验箱和温度为+70°C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 °C ±2 °C for 30 minutes,sounder shall be placed at room temperature(+20 °C).After 15 minutes at this temperature,sounder shall be placed in a chamber at +70 °C ±2 °C.After 30 mintues at thistemperature , sounder shall be returned to room tem-perature(+20 °C)for 15 minutes.After 5 above cycles,sounder shall bemeasured after being placed in natural condition for 2 hours(Attached FIG.2)

FIG.3

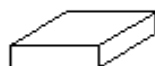


频率10–55–10（Hz），单振幅：1.5（mm）扫频时间1min，振动时间30min（见图FIG. 3）。

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

产品包装图 *Packing*

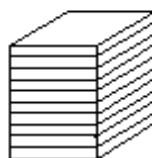
1. 发泡塑料盒
Foam Box



数量: 100只/盒
Quantity: 100 pcs/box



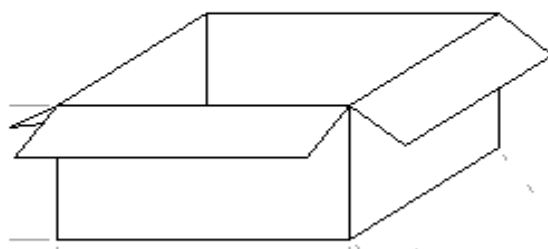
2. 塑料袋外包装
Plastic bag



数量: 10盒/礼
Quantity: 10 boxes/bag



3. 纸箱包装
Carton



数量: 5000只/箱
Quantity: 5000 pcs/carton