## 规格书 Specification

品名 Model name

TMB12A03 C96222 ROHS

PROPRIETARY Huaneng Electronic co.,Ltd.

CONFIDENTIAL Huaneng Electronic co.,Ltd.

Version #	Spec V1.0	
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1.适用范围: 本规范适用于TMB12A03 ROHS蜂鸣器。
This specifications apply the TMB12A03 ROHS buzzer.

2.基本规格/General specification

项目/Item		规格/Spec	条件/Condition	
1	额定电压 Rated voltage	3VDC		
2	工作电压 Operation voltage	1.5∼4VDC		
3	声压 Sound Pressure Level=SPL	Min 85dB	测试环境:标准状态,标准驱动电路,额定电压 测试距离: 0.1m Standard State,Standard Drive Circuit. Rated voltage,Distance at 0.1m	
4	平均消费电流 Average consumption current	Max 30mA		
5	振荡频率 Oscillation frequency	2300±300Hz		
6	响应时间 Response time	Max 50mS	最低工作电压 Lowest operation voltage	
7	工作温度范围 Range of operation temperature	-20∼+70°C	声压 ≥80dB SPL ≥80dB	
8	保存温度范围 Range of preservation temperature	-30∼+85°C		
9	端子强度 Terminal strength	10N	拉负荷方向的终端轴 Pull load on the direction of the terminal axis	
10	外部尺寸 Externals size	Ф12х9.5	参阅附图 Refer to the attached drawing	
11	重量 Mass	2g		

☆标准状态: 常温(15~35℃),湿度(25~85%相对湿度),空气压力(860~1060hpa)

在假设的情况判断,测试是一基本状态下进行。

Standard State:Ordinary Temp( $15\sim35^{\circ}$ C),Humidity( $25\sim85\%$ RH),Air pressure( $860\sim1060$ hPa)

In case of doubtful judgment, the test is re—performed under Basic State.

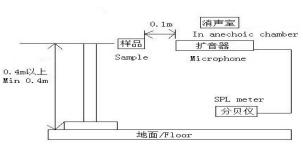
☆基本情况: 温度。(20±2°C),湿度(60~70%相对湿度),空气压力(860~1060hpa)

Basic State: Temp.(20±2°C), Humidity(60~70%RH), Air pressure(860~1060hPa)

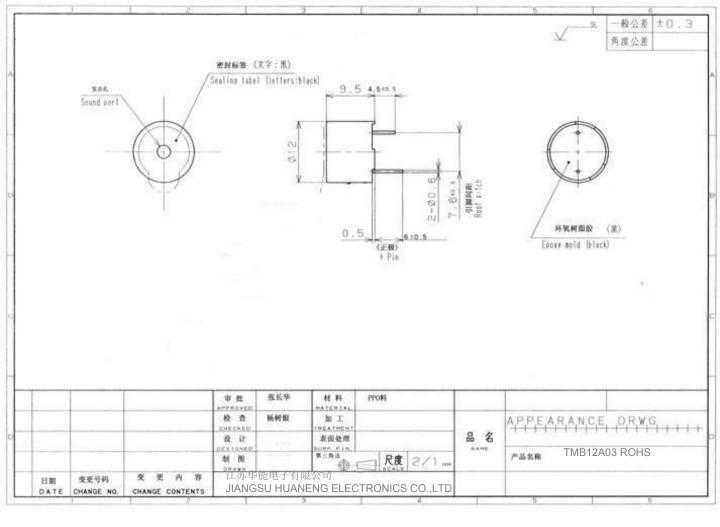
〈标准驱动电路〉/〈Standard Drive Circuit〉

〈标准测试治具〉/〈Standard Test Fixture〉





项	目/Item	试验条件/Test condition	判断标准/Criteria	引用规格
1	高温保存试验 High temperature Preservation	+85℃环境下放置24小时 Exposure to +85℃ for 24 hrs.	经过测试,符合规格, 没有任何不合格的外 观和性能 After the test the part shall meet	
2	低温保存试验 Low temperature preservation	-20℃环境下放置24小时 Exposure to -20℃ for 24 hrs.	specificati -ons without any degra.	
3	高温试验 High temperature Shock	+85°C		
4	低温试验 Low temperature Shock	-20°C		
5	常温寿命试验 Ordinary Temp.Life	常温(25℃±10℃)电压3VDC连续测试48小时 Driving the sounder at 3VDC for 48hrs in the room temperature(25℃±10℃)		
6	高温寿命试验 High Temp.Life	高温(+85℃)电压3VDC连续测试2小时 Driving the sounder at 3VDC for 2hrs in the low temperature(+85℃)		
7	低温寿命试验 Low Temp.Life	低温(-20℃)电压3VDC连续测试2小时 Driving the sounder at 3VDC for 2hrs in the low temperature(-20℃)		
8	端子拉力试验 Lead strength	10N的拉力在端子上拉10±1秒 Pull load on the direction of the terminal axis for 10±1 sec.		
9	跌落试验 Free drop	70cm高自由掉落到厚40mm的木板上,每个方向一次 Free drop,70cm height, on wood boad (t40mm) X,Y,Z 3Direction 1time each, total 3times.	排除弯曲的针 Exclude bending of Pin	
1 0	端子可焊性试 验 Solderabilit y	260±5℃焊接温度。时间: 5±0.5sec。 Temp.260±5℃ Soaking Time: 5±0.5sec	端子95%必须覆盖着焊料 95% surface of lead pins must be covered with fresh solder and no soldering holes Should be found	



产品特征图

