

SPECIFICATION FOR APPROVAL

规 格 书

Customer (客户): _____

Customer P/N: _____
(客户型号)

QINLON P/N : _____ **SP-2608AL310** _____
(本厂型号)

DESCRIPTION: _____ **SPEAKER Φ 26x5.2mm 8 Ω 1W** _____
(样品编号)

SAMPLES Date _____

【注意/Note】

- 1, THIS PRODUCT MUST COMPLY WITH RoHS DIRECTIVE .(此本品符合欧洲 RoHS 规定指令)
2. IN CASE OF CHANGES, SUCH AS DIE & MOLD, MANUFACTURING PROCESS, MATERIAL, APPEARANCE, AND INSPECTION etc. ,THE SAME PROCEDURE IS REQUIRED.(此部品确认后。如模具、制造方法、材料、外观、检查等发生变更的情况下必须事前由双方进行合议)

CUSTOMER'S APPROVED SIGNATURE

SUPPLIER: CHANGZHOU QINGLONG ELECTRONIC COMPONENTS CO.,LTD

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Issued by 担当	Checked by 核查	Approved by 确认	Initial Date 日期	Updated 更新	Version
Liang H.W.	He B.B.	Lu T.M.	2018.09.22	2019.12.25	V1.1

Loud Speaker Specification

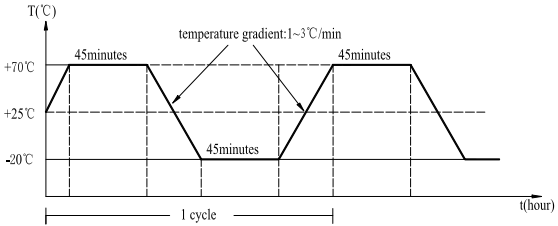
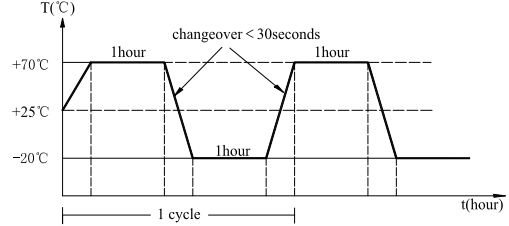
Part No.	Customer No 顾客型号		Customer code 顾客编号	
	QINLON Part No 本厂编号	SP-2608AL310	Revision 版本	V1.1
No.	Item 项目	Specification 规格	Testing Condition 测试条件	
1.	Impedance 阻抗	8Ω+15%	Impedance @ 1.0 Vrms	
2.	Resonance Freq 谐振频率	700Hz +20%	Without Baffle	
3.	Output S.P.L. 灵敏度	93±3dB	@ 0.1m/2.0V 0.8k, 1K, 1.2KHz Average	
4.	Rated Power 额定功率	1.0W	at 2.83 Vrms	
5.	Max Power 最大功率	1.5W	The loading signal will be 1 second on, 59 seconds off repeatly	
6.	Frequency Range 有效频宽	F0~6 kHz	Output S.P.L. -10 dB	
7.	Operation 可靠性试验	Must Be Normal	Program Source 1.0W	
8.	Buzzes & Rattles 异常音试验	Should not be audible buzz and rattle 无异常声	Sine Wave Between (正弦波入力) @ 2.83Vrms / 300Hz~3.4kHz	
9.	Distortion 失真	10% Max	0.5W @ 1000Hz	
10.	Magnet 磁铁	Size: Φ9.5*1.5mm		
11.	Operating Temperature 工作温度	-20°C to +70°C		
12.	Storage Temperature 储存温度	-20°C to +70°C		
13.	Weight 重量	6.5 g±10%		

P/N: SP-2608AL310

2. 可靠性测试 RELIABILITY TESTS

在测试以后,特定音压变化值不能超过±3dB.

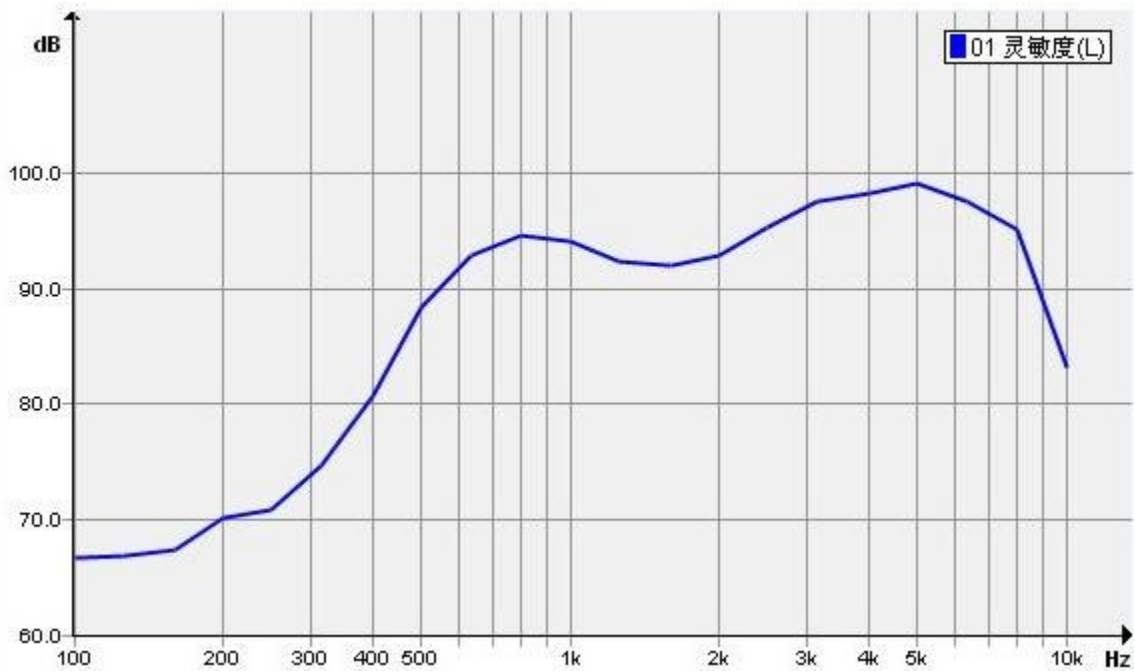
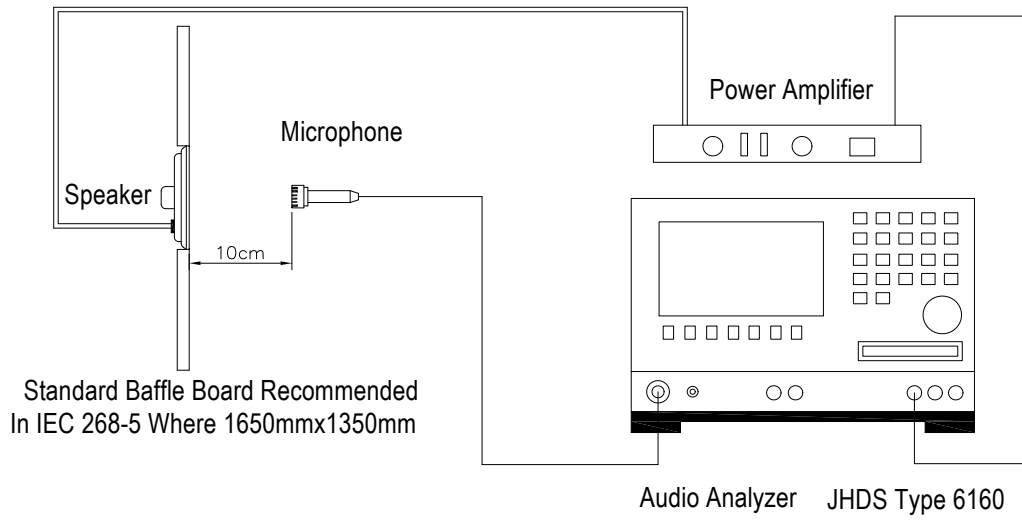
The sound pressure as specified shall neither deviate more than ±3dB from the initial value, nor any significant damage after any of following testing.

1.	Cold Test 耐寒试验	After having been in a test chamber for 96 hours at the condition of -20°C 62°C and then left 2 hours in a room. (-20°C 62°C, 96 小时试验室温两小时后,无异常)
2.	Heat Test 耐热试验	After having been in a test chamber for 96 hours at the condition of +70°C 62°C 90~95% R.H and then left 2 hours in a room. (+70°C 62°C 90~95% R.H 96 小时试验常温 2 小时后,无异常的不良)
3.	Load Test 连续负荷试验	Must be normal after load test :1.0W 96 hours. (1.0 W 连续 96 小时试验后无异常的不良)
4.	Short Term Maximum Power test 瞬间最大功率测试	Test for 1 hour under maximum power. Input shall be in rated frequency response. And the signal will be 1 second on, 59 seconds off, total 60cycles. (1.5 W, 1 秒开 59 秒关, 连续 60 循环, 试验后无异常之不良)
5.	TEMPERATURE CYCLE TEST 温度循环测试	<p>温度 Temperature: -20°C ~ +70°C 持续时间 Duration: 45 minutes 温度倾率 Temperature gradient: 1~3°C/min. 循环次数 cycle : 60</p> 
6.	HEAT SHOCK TEST 热冲击测试	<p>高温值 High temperature: +70°C ± 2°C 低温值 Low temperature: -20°C ± 2°C 变更时间 Changeover time: < 30 seconds 持续时间 Duration: 1 hour 循环次数 Cycle: 100</p> 
7.	Drop Test 跌落试验	Drop the speakers contained in normal box onto a board 5mm thick 10 times from a height of 1.0m . (在厚 5mm 的木板上从 1.0m 的高度跌落 10 次,无异常不良)

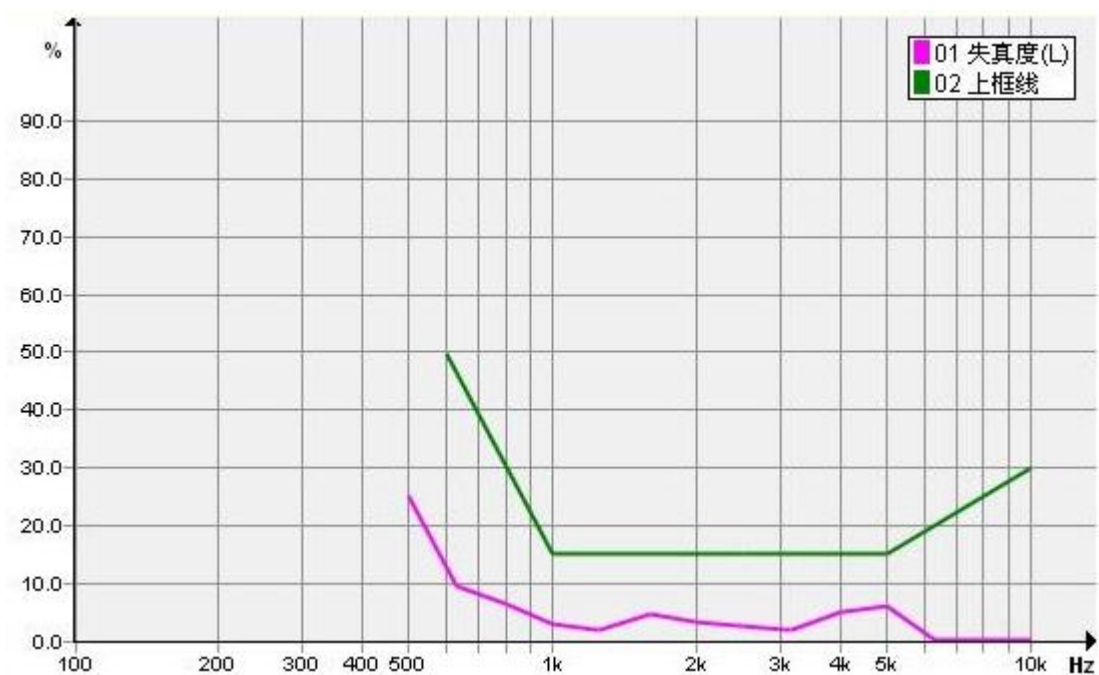
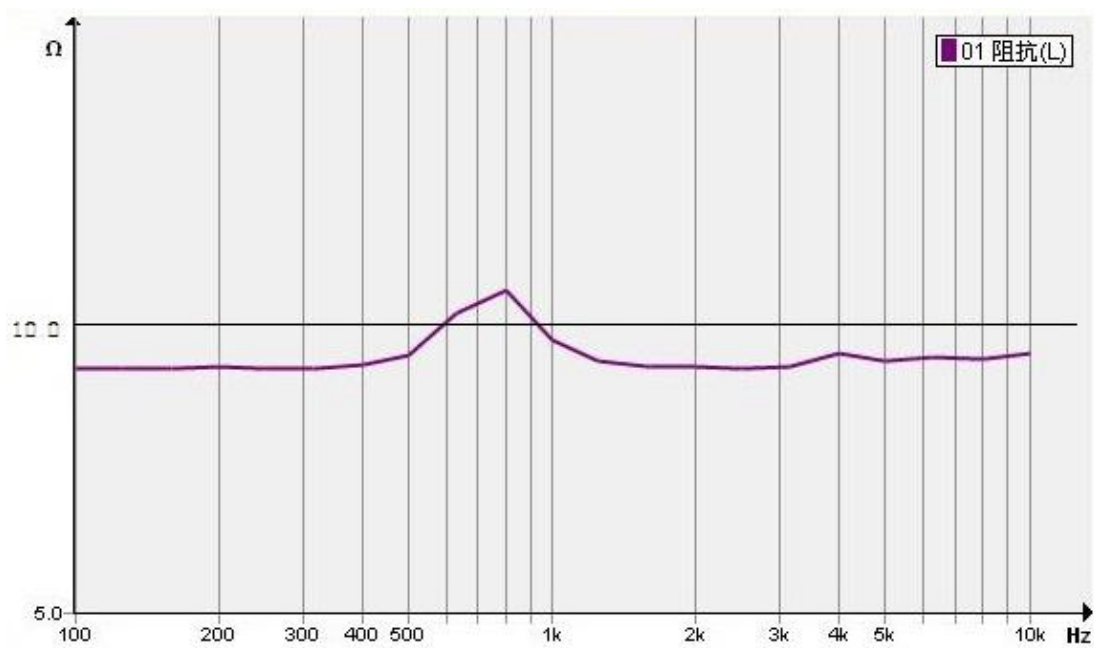
Frequency Response

MEASUREMENT CIRCUIT

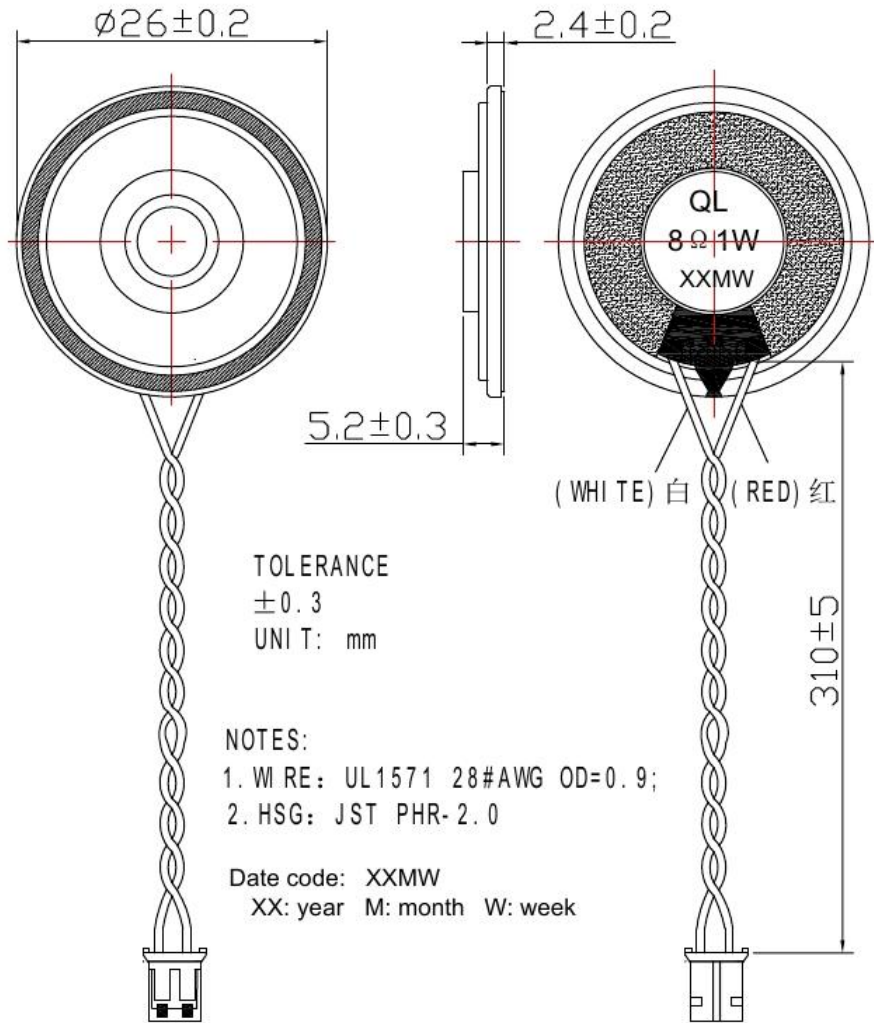
Standard test condition of speaker



Impedance & Distortion



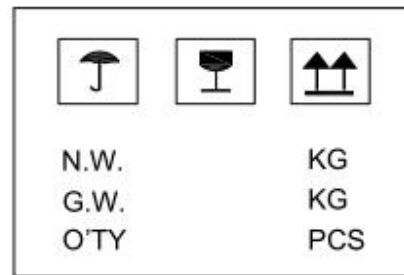
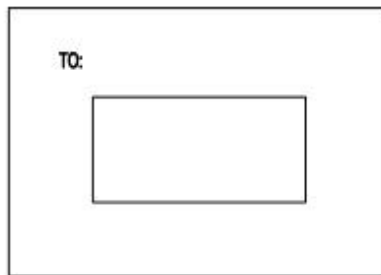
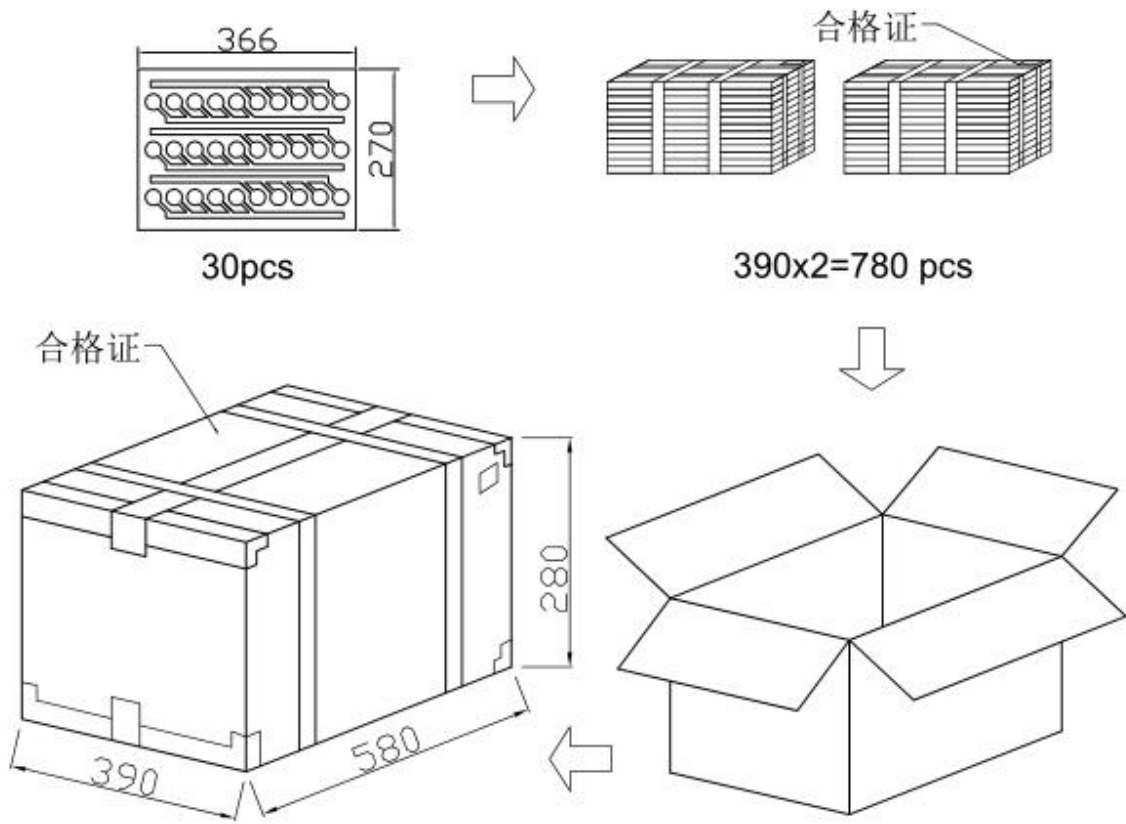
Product Outside View



Noise Testing

Testing Method 测试方法	
Item 步骤	Testing Condition 测试条件
1. Testing voltage 测试电压	2.83Vrms
2. Testing Frequency Range 测试频率范围	300~3400Hz
3. Testing speed 扫描速度	$S \geq 0.8s/Cycle$
4. Operation 测试方法	The distance from speaker to tester ear is 30cm 距离测试者耳朵 30cm 处监听,声音清纯无异常音为 OK

Packing



Remark:
30 pcs per tray
26 trays per box
Total: 780 pcs per box
Size: 580*390*280 mm
Weight: 13kg