

Product Specification

Number: L-YDB50-11-05-1.0W-4R-30MM

Name: Ferrite Magnetic Speaker
(Plastic)

Customer: _____

Date: 2024-06-13

Customer Signature:



WWW.KLSELE.COM

NINGBO KLS ELECTRONIC CO; LTD

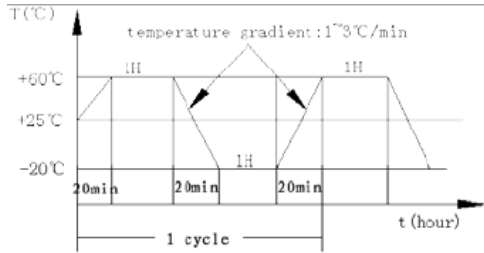
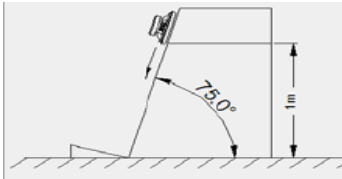
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INDUSTRIAL ZONE BEILUN NINGBO ZHEJIANG.**

Compile	Check	Review	Approval
Jenny	Jack.C		

SPECIFICATION			MODEL NO.	L-YDB50-11-05-1.0W-4R-30MM	P2/6
PRODUCE DATE	2024-6-12	A版			
1. TEST CONDITION（测试条件）					
Unless otherwise specified,The standard of range atmospheric conditions for making measurementsand tests as follows（无特定要求时如下述测试条件）：17℃～25℃，45%～85%RH，860HPA～1060HPA. If there is no doubt about results,measurement shall be made with in the following limits. （当判断有疑问的场合如下述测试条件）：20℃±3℃，60%～70%RH，860HPA～1060HPA.					
2. SPECIFICATION OF SPEAKER MODE（喇叭模式规格）					
2.1	Rated IMPEDANCE 额定阻抗	4Ω±15%	At 1.0KHz 0.89V		
2.2	RESONANCE FREQUENCY 最低共振周波数	600±20%Hz	At 0.89V		
2.3	Rated Power 额定功率	1.0W	At 2.0V		
2.4	MAX POWER 最大功率	2.0W	At 2.8V		
2.5	Outerput S.P.L 出力音压	92±3dB at 0.1W/0.1M	At 600.800.1000.1200.1500.2000Hz average		
2.6	Frequency response curve 实效频宽	F0 ～ 20KHz	Deviation -10db from average S.P.L		
2.7	Rub& Buzz 异常音检查	should not be audible buzz and rattle (无异常声音)	Sine WAVE(正弦波入力) at 2.0V /350 ～ 2kHz		
2.8	Dostortion 失真	≤10%THD	At 1kHz 0.1W		
2.9	Polarity 极性	When a positive D.C current is applied to the voice coil terminal marked +,the diaphragm shall move forward.(端子板的正极通入电 流，振膜向前运动)			
2.1	Magnet Size 磁铁	NdFeB（Φ12. 5*1. 3）			
2.11	Net Weight 重量	±10%			

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3.ENVIRONMENTIAL CHARACTERISTICS（信赖性试验）					
3.1	High temperature test 耐热试验	+ 60±3℃ duration 96 hours ,then removal back to normal temperature for 2 hours（+60±3℃，96小时实验后，常温放置2小时）			
3.2	LOW temperature test 低温实验	- 40±3℃ duration 48 hours ,then removal back to normal temperature for 2 hours（-40±3℃，48小时实验后，常温放置2小时）			
3.3	Humidity test 耐湿试验	Temperature +40±3℃， relative humidity 90～95%, duration ,96 hours ,then removal back to normal temperature for 2 hours（温度+40±3℃，相对湿度90～95%，96小时实验后，常温放置2小时）			
3.4	Load test 连续负荷试验	The products shall not be no sound/Buzz&Rattle/different volume/exceptional diversification of frequency response curve in testing and after testing process for a continuous working of 96H at a rated 0.5W white noise 。 0.5W的白噪声下连续工作96小时,测试中和试验后不能出现任何无声/杂音/音量大小不均/频率响应曲线等异常变化。			
3.5	Temperature cycle test 温度周期试验	Temperature: -20℃to +60±3℃ Duration : 2 hours Cycl :2cycle 温度-20℃ 2小时转高温，+60℃±3℃ 2小时为一周期 共试验2周期 			
3.6	Drop test 跌落试验	The speaker shall be dorp 5 times as shown in the figure and Cacophony must be normal （如图所示5次跌落实验后外 观和声音无异常）			
3.7	In Sulation resistance 绝缘阻抗	A VOLTAGEOF 100V.d.c shall be applited for 1 min between a terminal and a frame ,after which measurement shall be made ,2MΩ OR MORE （D. C. 100V，1分钟后端子与支架间2MΩ以上）			
3.8	Vibration test ibration 振动试验（捆包状态）	10-55Hz/min Amplitude: 1.5mm Duration: 2hours each axes			
3.9	Operating temperature 工作温度	- 20℃ TO+60℃			
3.10	torage temperature 储存温度	- 30℃ TO+60℃			

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■MEASURING CIRCUIT(SPEAK™)

测试回路（喇叭模式）

POWER AMPLIFIER

POWER SUPPLY

Speaker

Measuring Distance 10cm

Microphone 4191

Standard Anechoic Room

VGA MONITRO

SOUND CHECK

■ FREQUENCY CURVE

频响曲线图标

120 dB

110

100

90

80

70

60

50

SPK

50

32

16

8

4

2

1

100Hz

200

500

1k

2k

5k

10k

20k

结果

Polar: + --

Avg.Sen: 97.1 --

F0: 595.9 --

Zmax 8.5 --

M.Avg --

线扫按钮Dnm

参数

扬声器: 测试电压1000 mV 倍频程1/24 Oct 扫描范围100-20000Hz

传声器: 测试声压94 dB 倍频程1/24 Oct 扫描范围20000-20Hz

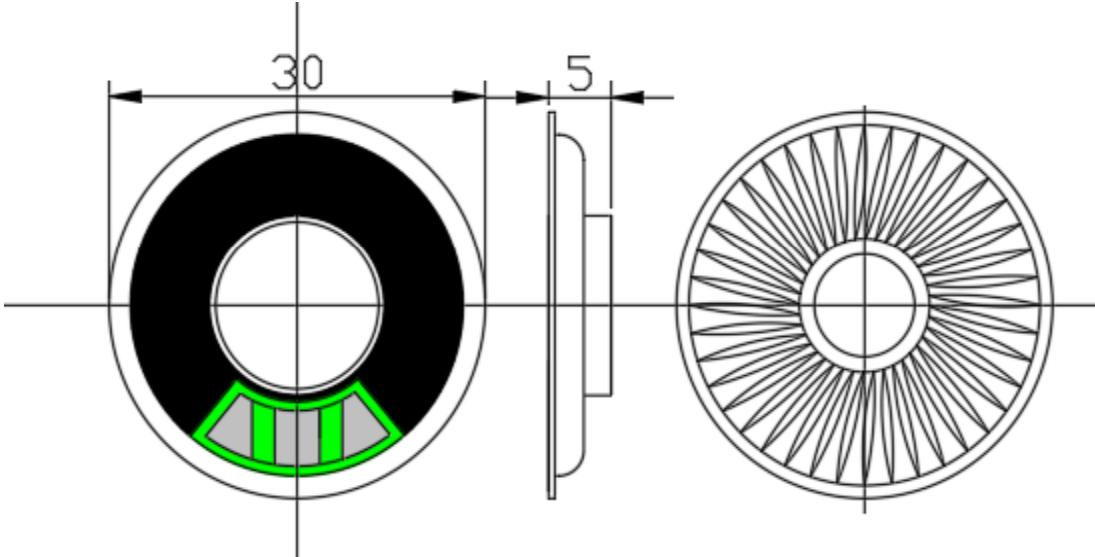
2024/06/13

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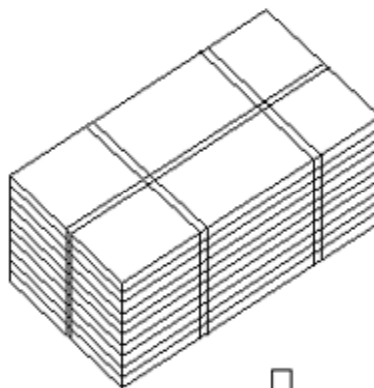
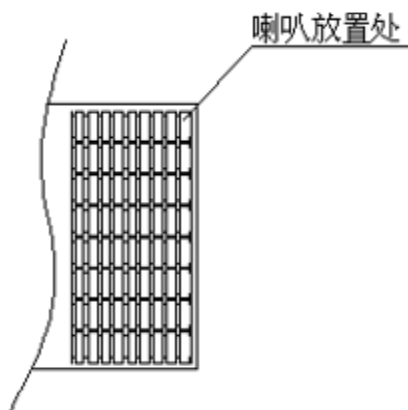
DIMENSIONS

Unless otherwise specified, tolerance: ±0.3 (unit: mm)

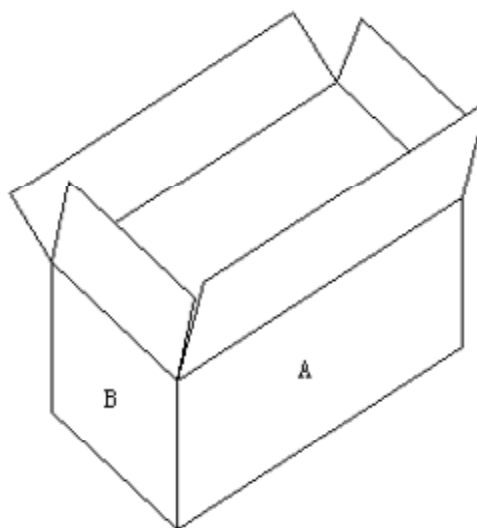


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■ PACKAGING PARAMETERS



MODEL:	
QTY:	PCS
N. W.	KGS
G. W.	KGS
MEAS:	CM



注：

- 1.保丽龙 5PCS
- 2.盖板 1PCS
- 3.外箱 1PCS
- 4.1000PCS/箱
- 5.包装标签可根据客户要求定制