

規格承認書

PECIFICATION FOR APPROVAL

客 戶

CUSTOMER : 立創

項 目

ITEM : 塑壳内磁喇叭

型 號

TYPE : GSPK2003TN-8R1W

描述

DESCRIPTION : ϕ 20.0*H3.8mm 焊线 L100mm 8ohm 1W S.P.L: 86dB+/- 3dB

客戶料號

CUSTOMER NO. :

規 格 書 號

SPECIFICATION NO.:

版 本

EDITION NO. : V1.1

日 期

DATE : 2025-8-13

客戶承認

CUSTOMER CONFIRM AND SIGN

檢查 TESTED BY	審核 CHECKED BY	承認 APPROVED BY

東莞市贏海電子有限公司

DONGUAN INGHAI ELECTRONICS CO.,LTD

製作 ISSUED BY	審查 CHECKED BY	確認 APPROVED BY
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DONGGUAN INGHAI ELECTRONICS CO.,LTD

Our Part No : GSPK2003TN-8R0.5W

A. 型号/PART No

该规格书适用于移动电话等使用的扬声器单元。

This Specification Applies to The Speaker, Used In Mobilephone sec.

B. 尺寸/TYPE

20mm 圆形喇叭 电动式/ 20mm Rectangle Dynamic type

C. 尺寸与重量/DIMENSION

尺寸: 20*3.5mm 参考外观图面 (Figure.1)

Dimension: Refer To The Appearance Drawing. (Figure.1)

重量: $\pm 0.1g$

Weight: $\pm 0.1g$

D. 标准测试条件/STANDARD TEST CONDITION

在没有其他特别指定时, 测试应如下所记的标准测试条件下进行。

Unless Otherwise Specified, The Test Shall Be Made Under The Standard Conditions.

- 温度/Temperature : $17^{\circ}\text{C} \sim 25^{\circ}\text{C}$ (Standard: 20.5°C)
- 相对湿度/Relative Humidity : $45\% \sim 85\%$ (Standare: 65%)
- 大气压力/Pressure : 86Kpa~106Kpa (Standard: 101.3 Kpa)

E. 使用与储存温度/OPERATION AND STORAGE TEMPERATURE

- 使用温度/Operation Temperature : $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- 储存温度/Storage Temperature : $-30^{\circ}\text{C} \sim 70^{\circ}\text{C}$

F. 电气特性规格/Electrical Specification

参考特性规格页面/Refer To The Appearance Page

G. 外观与尺寸: 参考附图

Appearance&Dimensions: Refer To The Apprarance Drawtng

H. 额定/Rated

项目/Items	规格/Specification	条件/Conditions
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额定阻抗/Rated Impeance	8 Ohm±20%	at 1kHz 100 mV
额定输入功率/Rated input power	0.5W	
最大输入功率/Max inut power	1.0W	
最低共振频率 /Resonant Frequency	1000±20% Hz	1V Input
灵敏度/Sound pressure level	86±3dB	SPL at 1.0kHz in Average (0dB SPL=20μPa) Measuring condition: 0.5W (Sine wave) 0.1m measured with baffler shown in Figure4
有效频率范围 /Frequency response	200~5000Hz	
总谐波失真/THD	≤5% at 1kHz	

I. 动作检查/OPERATIONAL TEST

项目/ITEM	信号/SIGNAL	输入/INPUT	扫频范围/SWEEP RANGE
SWEEP TEST	Sine Wave	0.5W(2.85V)	200~5000Hz

- 在动作检查中不得有异常音出现
- Without Abnormal Sound In Operation Test。

J. 负荷实验/LOAD TEST

项目/ITEM	信号/SIGNA	I 输入/INPUT	驱动时间 DRIVING TERM
Continuous load Test	With Noise/Jis Filter (Refer To Jis C5531)	0.5w(2.85V) (RMS)	96hours (wlth 5cc test box)

- 在负荷实验 后不得有异常音出现,灵敏度应保持在限度范围内。
- Without Abnormal Sound After Test, And The S.P.L Shall Be In The Limit。
- 负荷实验应使用粉红噪声信号
- Runing Test Shall Use pry Noise Signaln

K. 可靠性实验/Reliability Test

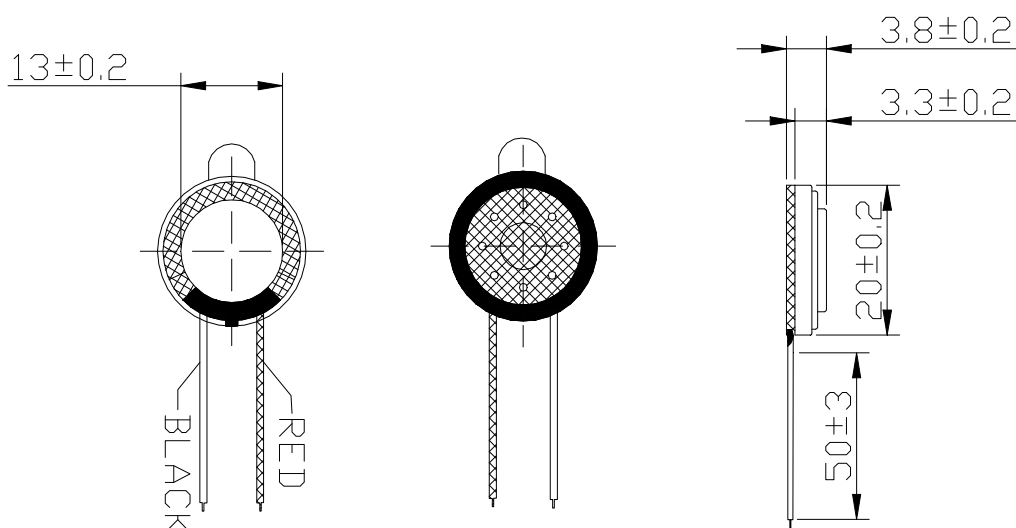
项目/Item	规格/Specification	判定/Judgement
高温放置实验 Hightemp.Storage Test	85℃±2℃/20~40%RH/96HR & 20℃±5℃,1H	实验完成后产品应满足上述第 1, 2, 3 项要求. Clause 1, 2, 3 Shallbe Satisfied Afier Test
低温放置实验 Lowtemp.Storage Test	-40±2℃/20~40%RH/96HR & 20℃±5℃,1H	
耐湿实验 Humidity Test	40℃±2℃/90~95℃RH/96HR & 20℃±5℃,1H	
耐高温负荷实验 Heatrunning Test	85℃±2℃/20~40%RH/-	

耐低温负荷实验 Coldrunning Test	-40℃±2℃/20~40%RH/-	
热冲击实验 Thermalshock Test	+85℃±2℃—30℃±2℃—+85℃±2℃ 5Cycles	
震动实验 Vibration Test	10Hz—40Hz—10Hz/60s, 1.0mm (X: 2H, Y: 2B)	

L. 跌落实验/SHOCK TEST

项目/Item	条件/Condition	判定/Judgement
Drop Test	产品在包装状态下,从 1 米高处向混凝土地面跌落:1角:1次:3边:每条边 1 次:6面:每 1 面 1 次 Speaker Shall Be Packed In The Carton And Dropped The Concrete Floor(H:1m)	实验完成后新产品应满足上述第 3 项要求 Clause 3 Shallbe Satisfied Afier Test

M. Product Size



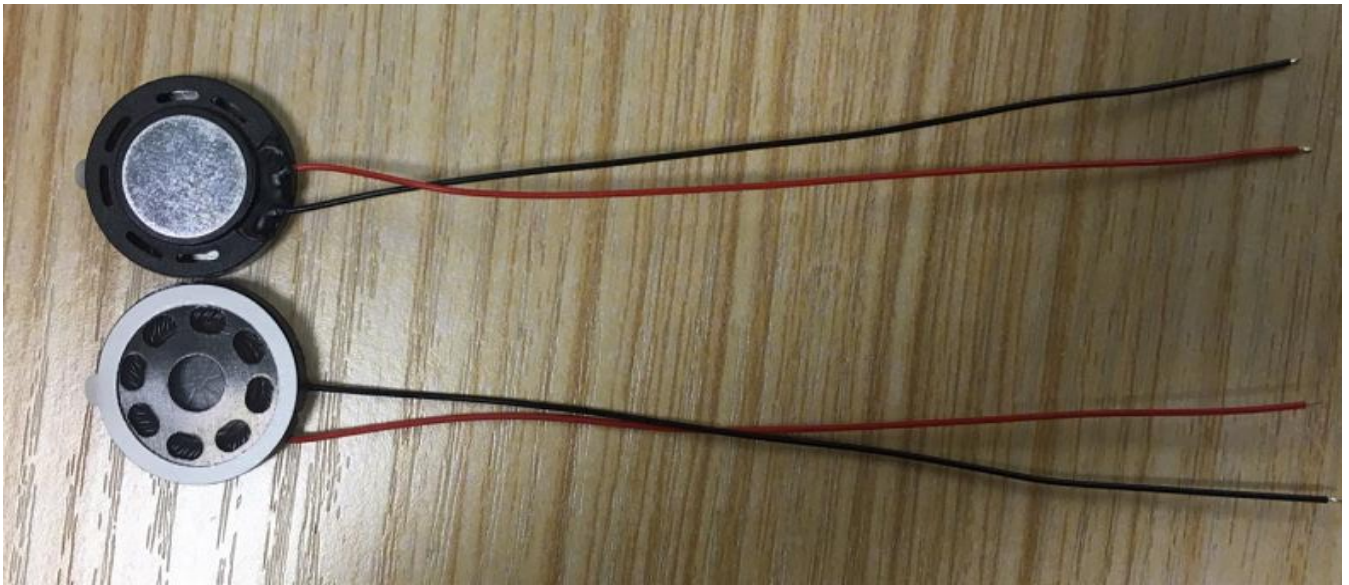
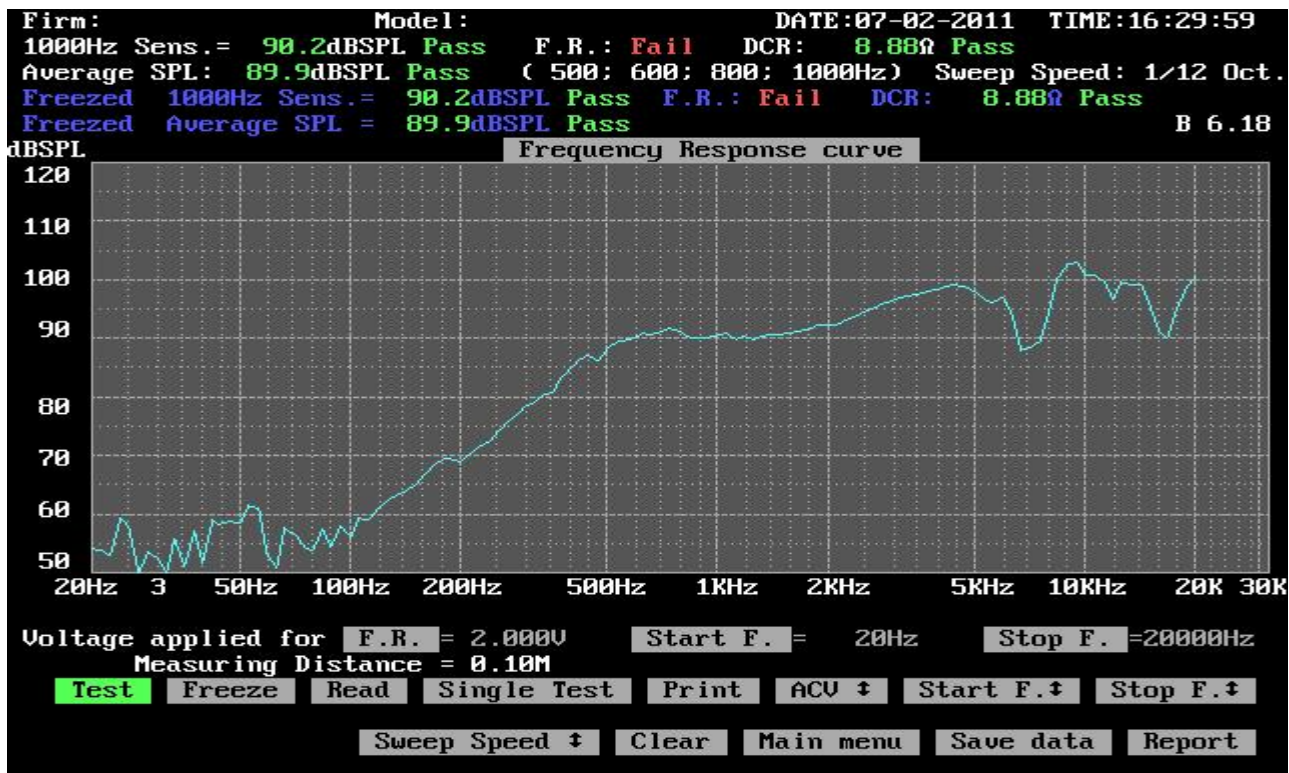


Figure.1

ITEM	DESCRIPTIONS	SPEC.	SUPPLIER	QTY	REMARK
1	Front foam ring	Adhesive		1	
2	Front cover	1Cr18Ni9		1	
3	Diaphragm	PEN		1	
4	Voice coil	Self-bonding wire		1	
5	Inner pole shoe	08F,		1	
6	Magnet	Nd-Fe-B		1	
7	U YOKE	SPCE		1	
8	PCB	T0.3		1	
9	Lead wire	UL1571 AWG32#		2	
10	Yoke assembly	PBT, black		1	
11	Insulator pad	Mylar		0	

N. Product testing curve



FREQUENCY MEASURING CIRCUIT AND EAR PIECE

