

供应商名称:

产 品 承 认 书

Specification for Approval

客户名称

Client Name: 上海易保电子有限公司

客户料号

Part No: SP13-R1308-10

物料规格

Part Description: HDK-1308DA-8C1

产品制造商:

Manufacturer: 常州华龙电子有限公司

物料类别

Part Name: SPEAKER

客户物料描述

Description: R1308SiW11 950Hz 8 Ω V11/F10DM

制造商价格

Supplier price: RMB: 2.60 元含税

供 应 商 签 章	客 户 签 章
 2016.11.08	承 认: 确 认:

供应商联系地址: 江苏常州新北区电子园新四路 36 号

供应商联系人: 宋海燕

供应商联系电话及传真: TEL:051985106698 FAX:051985101081

MESSRS.**SPECIFICATION FOR APPROVAL****承 认 书**

Product	DYNAMIC SPEAKER
Part No.	HDK-1308DA-8C1(RoHS)
Customer	
Customer Part No.	SP13-R1308-10

Approved By	Checked By	Made By
王台平 JAN-12-2017	曹丽萍 JAN-12-2017	LILY JAN-12-2017

常 州 华 龙 电 子 有 限 公 司

Changzhou Dragon State Electronic Co., Ltd

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Tel: +86-519-85110078. 86-519-85106698, Fax: +86-519-85101081

EDITION:1.2

1.Specification

HDK-1308DA-8C1(RoHS)

ITEM		SPECIFICATIONS	
01	Type	Dynamic speaker	
02	Dimension	External diameter 13.0 mm	
03	Rated Input Power	0.5W	
04	Max. Input Power	0.8W for 1 minute	
05	Impedance	8 ohm $\pm$ 15% at 2000Hz.	
06	Resonance Frequency (Fo)	950Hz $\pm$ 20% at Fo, 1V	
07	Sensitivity (S.P.L.)	92dB(0.5W/0.1m) $\pm$ 3 dB	at AVE 1.0, 1.2, 1.5, 2.0KHz.
08	Frequency Range	Fo – 20KHz	
09	Total Harmonics Distortion	Max 8 % at 1 KHz, 0.5W.	
10	Voice Coil	Diameter 7.4 mm	
11	Magnet	Rare earth permanent (Nd-Fe-B) magnet Φ 6.8 x 1.0mm	
12	Weight	1.4g $\pm$ 5%g	
13	Appearance	Should not exist any obstacle to be harmful to normal operation; damages, cracks, rusts and distortions, etc.	
14	Operation Test	Must be normal at program source – 0.5W	
15	Buzz, Rattle, etc.	Should not be audible at 2.0V sine Wave between Fo to 20KHz	
16	Polarity	When positive voltage is applied to the terminal marked (+), diaphragm should move to the front.	
17	Terminal Strength	Capable of withstand 1kg load for 30 seconds without resulting in any damage or rejection.	
18	Temperature	Operating temperature: -20°C to +60°C Storage temperature: -30°C to +70°C	

2-1 .Test Condition

Standard

Temperature : 15 ~ 35℃

Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

Judgement

Temperature : 20±3℃

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

2-2 . Standard Test Fixture

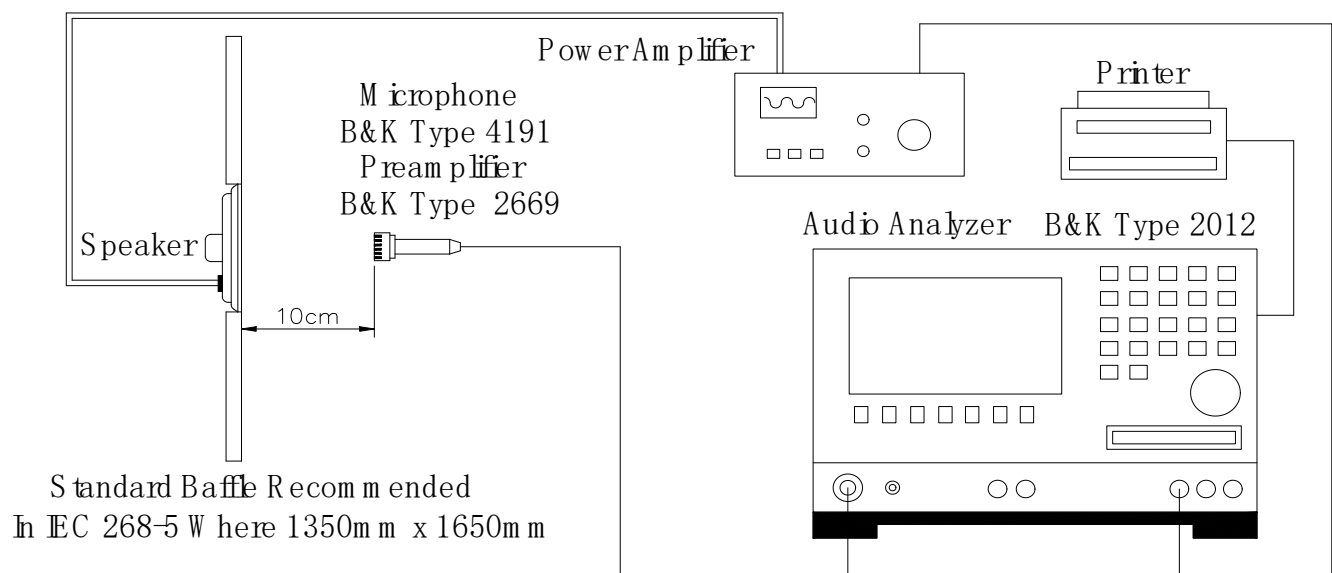
1.Input Power : 0.5W (2.0V)

2.Zero Level : -dB

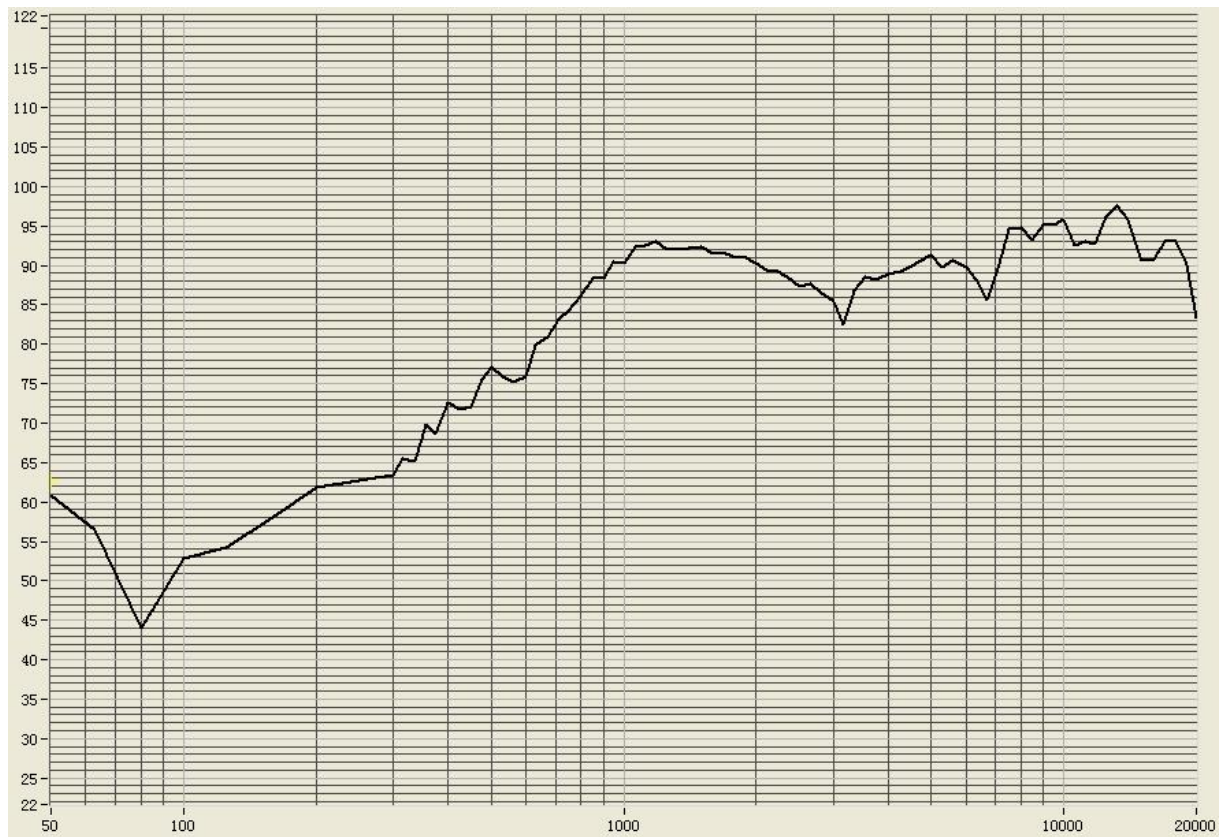
3.Mode : SPEAKER

4.potentiometer Range : 50dB

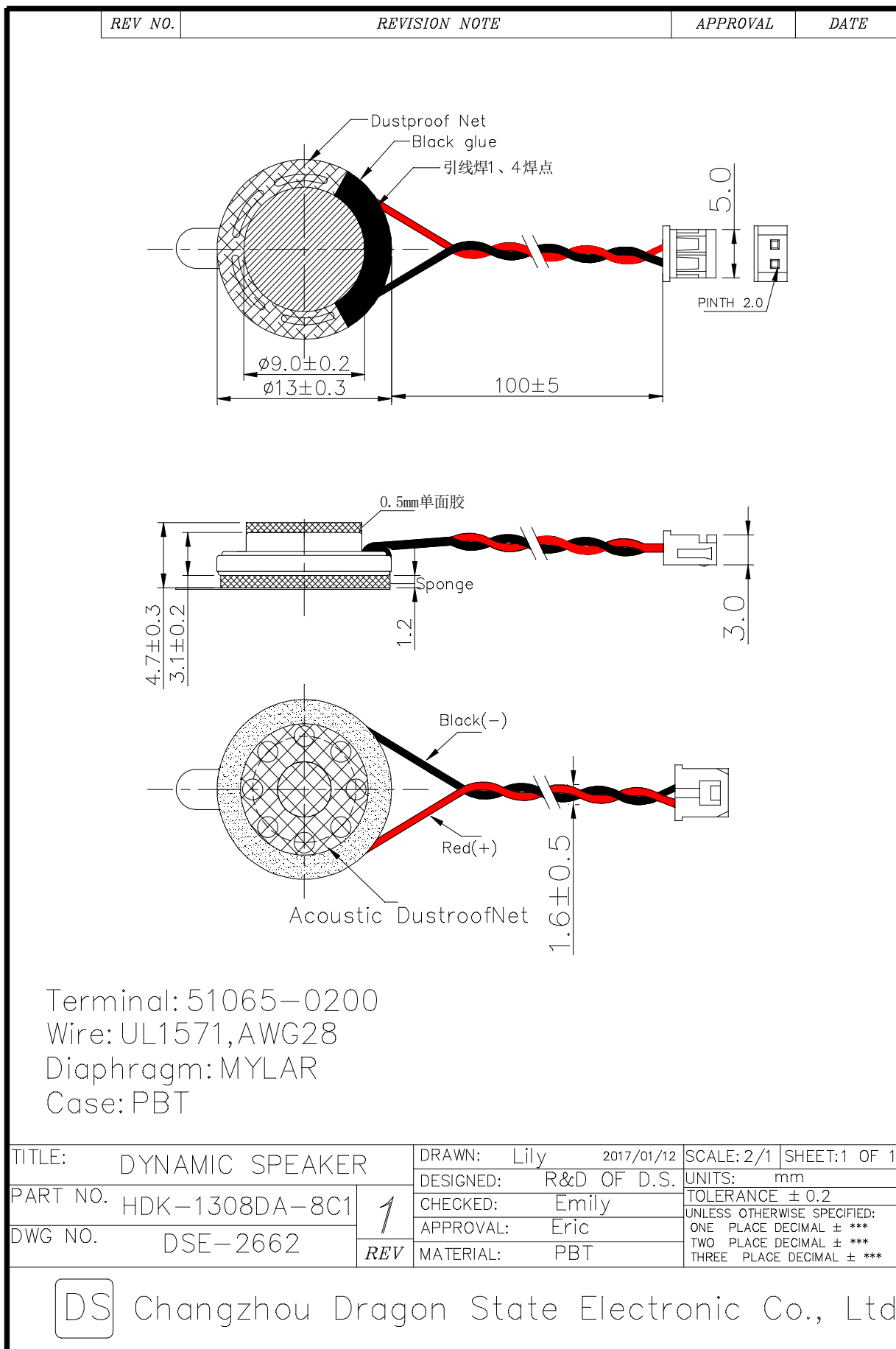
5.Sweep Time : 0.5sec



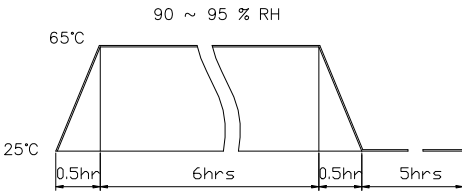
2-3. Frequency Response Curve



3.Dimension



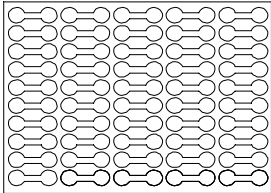
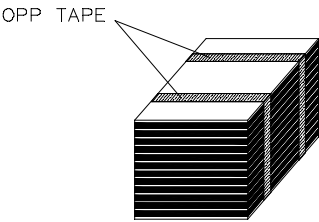
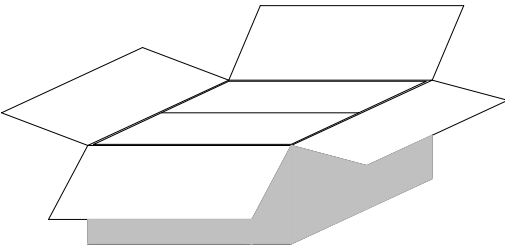
4. Reliability Test

Items.		Specifications
01	High temp. Test	Keep 96 hours at $+70^{\circ}\text{C}\pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
02	Low temp. Test	Keep 96 hours at $-30^{\circ}\text{C}\pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
03	Humidity test	Keep 96 hours at $+60^{\circ}\text{C}\pm 3^{\circ}\text{C}$ relative humidity 95% and leave 3 hours in normal temperature and then checked.
04	Temp./Humidity cycle	The part shall be subjected 5 cycles. One cycle shall be 12 hours and consist of; 
05	Thermal cycle test.	Low temperature: $-30^{\circ}\text{C}\pm 3^{\circ}\text{C}$, temperature: $+70^{\circ}\text{C}\pm 3^{\circ}\text{C}$, cycle: 1 hour/cycle each, and then keep 5 cycles in a room.
06	Vibration	10~200~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.
07	Fix drop test	Fix on jig. Then drop from 152cm height to the concrete floor X,y, z 6 direction. 5 times each, total 30 times.
08	Free drop test	Free drop from 100cm height to the concrete floor X,y, z 6 direction. 1 times each, total 6 times.
09	Rated Power test	Rated Power white noise is applied for 96 hours
10	Max Power test	Max power 1 min on – 2 min off 10 cycles.
11	Terminal strength test	Capable of withstand 1kg load for 30 seconds without resulting in any damage or rejection.
Criterion: After these test , the change of S.P.L shall be within ± 3 dB .		

Soldering Condition

Recommend using constant branding iron in **30W**, and in temperature range **$350\pm 10^{\circ}\text{C}$** .
 Soldering time **2** seconds.

5.Packing

REV NO.	REVISION NOTE	APPROVAL	DATE
	 Cover(325*245*5mm) Material: Paper		
	 Box(325*245*13mm) 100pcs Material: Paper+Epe		
	 Middle(325*245*155mm) 1000pcs(10*100pcs) Material: Paper+Epe		
	 Outer Box(490*360*350mm) 5000pcs(5*1000pcs) Material: Paper		
单位: mm			
TITLE: packing		DRAWN: Lily 2015/09/25	
PART NO.		DESIGNED: R&D OF D.S.	
		CHECKED: Emily	
DWG NO.		APPROVAL: Eric	
		MATERIAL: ***	
1 REV		SCALE: 2:1 SHEET: 1 of 1 UNITS: mm TOLERANCE 20~11 ± 0.3 10~5 ± 0.2 <4 ± 0.1	
DS Changzhou Dragon State Electronic Co., Ltd			