

MESSRS.

SPECIFICATION FOR APPROVAL 承 认 书

Product	DYNAMIC SPEAKER	
Part No.	HDK-1308DA-8C6(RoHS)	
Customer		
Customer Part No.		

Approved By	Checked By	Made By	
王台平	曹丽萍	LILY	
APR-03-2019	APR-03-2019	APR-03-2019	

常州华龙电子有限公司

DRAGONSTATE ELECTRONIC CORPORATION

中国江苏省常州市新区电子园新四路 36 号

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

EDITION:1.2



Dragonstate Electronic Corporation

1.Specification

HDK-1308DA-8C6(RoHS)

ITEM		SPECIFICATIONS		
01	Туре	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 ± 15% at 2000Hz.		
06	Resonance Frequency (Fo)	950Hz ± 20% at Fo, 1V		
07	Sensitivity (S.P.L.)	92dB(0.5W/0.1m) ± 3 dB	at AVE 1.0,1.2,1.5,2.0KHz.	
80	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 Φ6.8 x 1.0mm		
12	Weight	1.4g ± 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 $^{\circ}$ C to +60 $^{\circ}$ C Storage temperature: -30 $^{\circ}$ C to +70 $^{\circ}$ C		



2-1 .Test Condition

Standard

Temperature : 15 ~ 35 °C

Relative humidity: 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

Judgement

Temperature : 20±3℃

Relative humidity: 60% ~ 70%,

Atmospheric pressure: 860mbar to 1060mbar

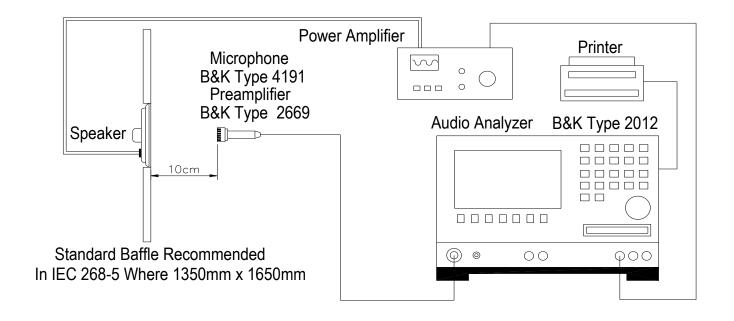
2-2 . Standard Test Fixture

1.Input Power: 0.5W (2.0V)

2.Zero Level : -dB 3.Mode : SPEAKER

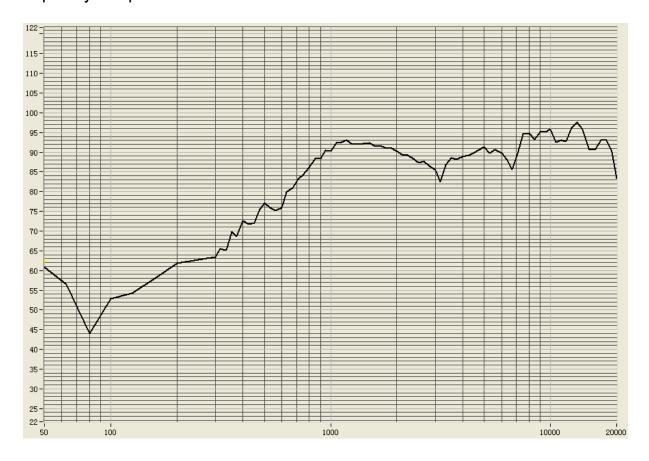
4.potentiometer Range: 50dB

5.Sweep Time: 0.5sec



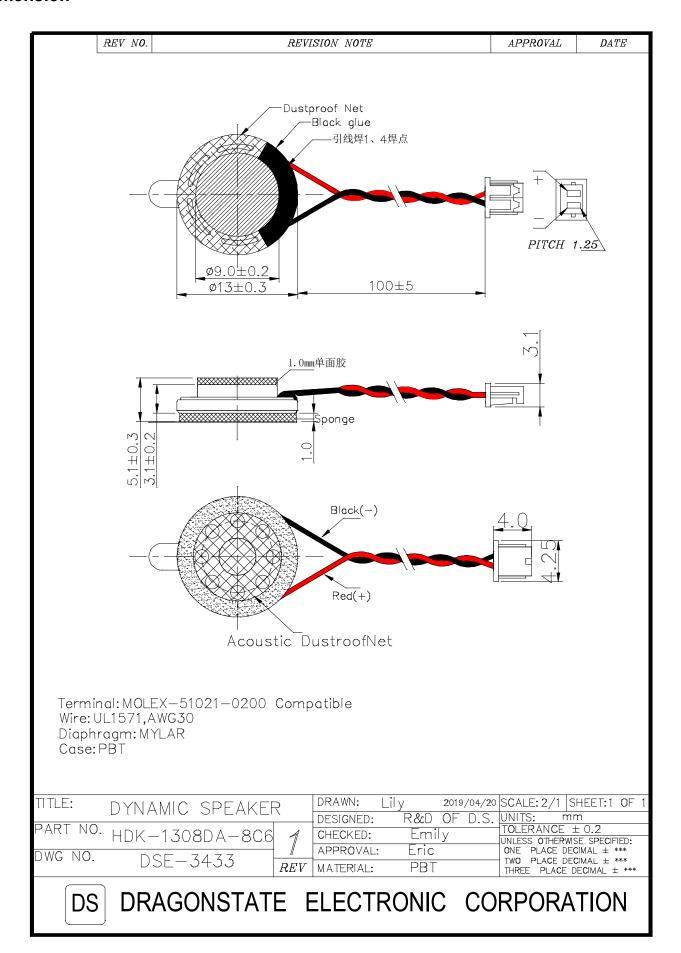


2-3. Frequency Response Curve





3.Dimension





4.Reliablity Test

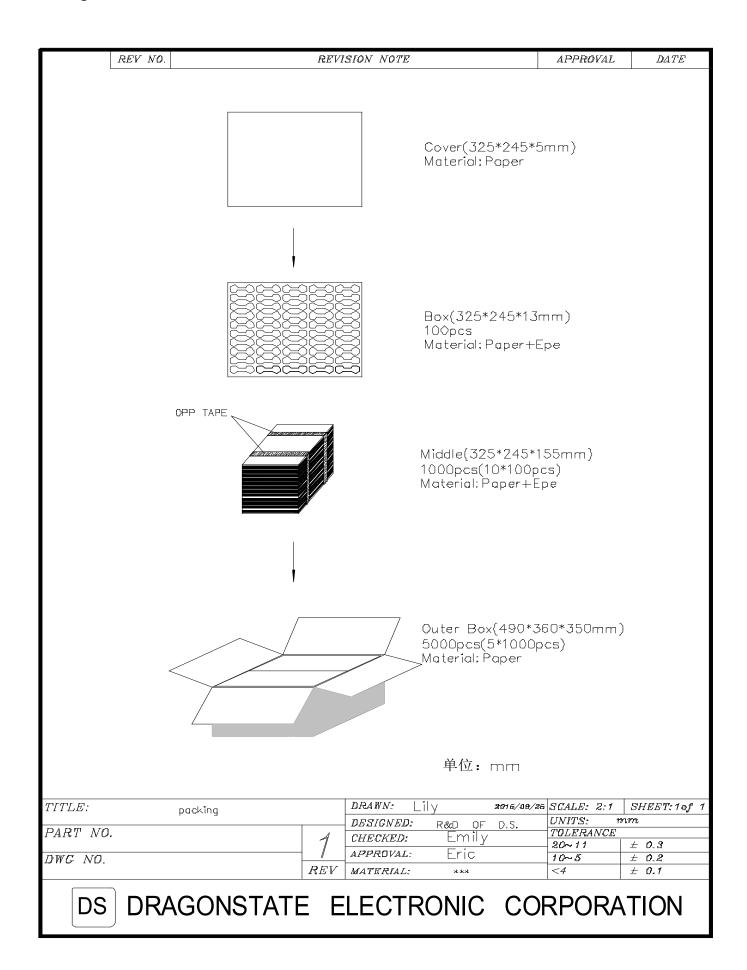
Items.		Specifications		
01	High temp. Test	Keep 96 hours at +70 $^{\circ}\mathrm{C}$ ±3 $^{\circ}\mathrm{C}$ and leave 3 hours in normal temperature and then check		
02	Low temp. Test	Keep 96 hours at -30 $^{\circ}\text{C}\pm3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check		
03	Humidity test	Keep 96 hours at + 60° C ± 3° 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;		
		25°C 0.5hr 6hrs 0.5hr 5hrs		
05	Thermal cycle test.	Low temperature: -30°C±3°C, temperature:+70°C±3°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.		
Crit	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±10°C**. Soldering time **2** seconds.



5.Packing





Dragonstate Electronic Corporation

6. History change record

Change Items	Date	Note	Drawn by	Checked by
	2019-04-03	First Issue	Lily 2019-04-03	王台平 2019-04-03