

MESSRS.

SPECIFICATION FOR APPROVAL 承 认 书

Product	DYNAMIC SPEAKER	
Part No.	HDK-251308ZA-2A (RoHS)	
Customer		
Customer Part No.	BV5800	

Approved By	Checked By	Made By	
王台平	曹丽萍	LILY	
DEC-19-2017	DEC-19-2017	DEC-19-2017	

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:1.1



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1. Specification

HDK-251308ZA-2A (RoHS)

ITEM		SPECIFICATIONS		
01	Туре	Dynamic speaker		
02	Dimension	External diameter 25*13 mm		
03	Rated Input Power	0.8W		
04	Max. Input Power	1.0W For 1 Minute		
05	Impedance	6 ohm ± 15% at 2000Hz 0.5V		
06	Resonance Frequency (Fo)	420±20% Hz (in free air)		
07	Resonance Frequency (Fo)	800±20 %Hz (in Box)		
08	Sensitivity (S.P.L.)	97 ± 3dB/0.1M/1.0W 8002.0KHz AV In Box		
09	Frequency Range	Fo – Fh Hz		
10	Weight	7.7g ± 5%g		
11	Appearance	Should not exist any obstacle to be harmful to normal operation; damages, cracks, rusts and distortions, etc.		
12	Operation Test	Must be normal at program source – 0.8W		
13	Buzz, Rattle, etc.	Must be normal at sine wave1.5Vrms (in free air) /2.2Vrms(in box) from 200~5K Hz		
13	Polarity	When positive voltage is applied to the terminal marked (+), diaphragm should move to the front.		
14	Terminal Strength	Capable of withstand 1kg load for 30 seconds without resulting in any damage or rejection.		
15	Temperature	Operating temperature: -20℃ to +60℃ Storage temperature: -30℃ to +70℃		



2.Test Condition

2.1Standard

Temperature : 15 ~ 35 °C

Relative humidity: 25% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

Basic

Temperature : 20±3 °C

Relative humidity: 60% ~ 70%,

Atmospheric pressure: 860mbar to 1060mbar

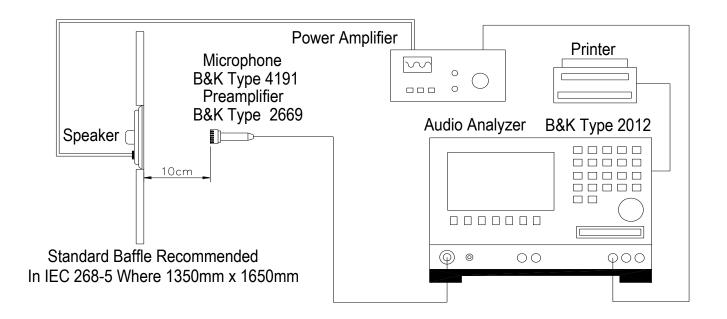
2.2Standard Test Fixture

1.Input Power: 1.0W (2.2V)

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

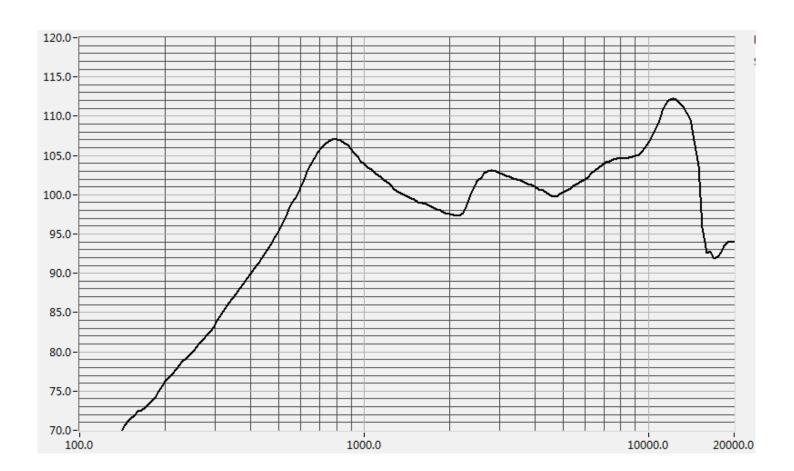
4.potentiometer Range: 50dB

5.Sweep Time: 0.5sec



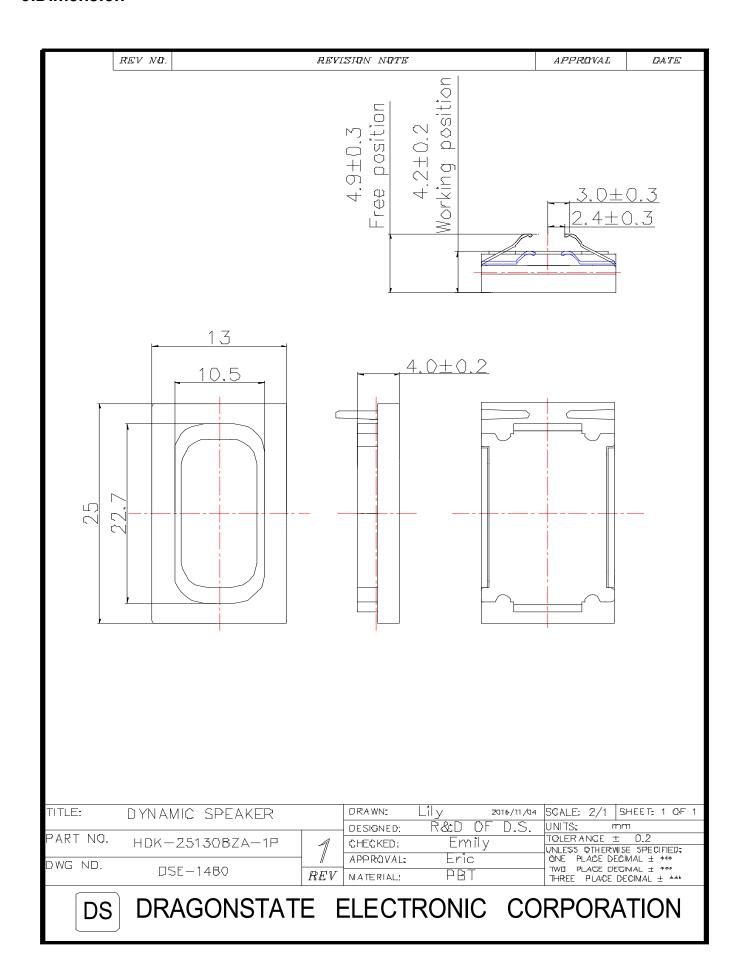


2.3 Frequency Response Curve

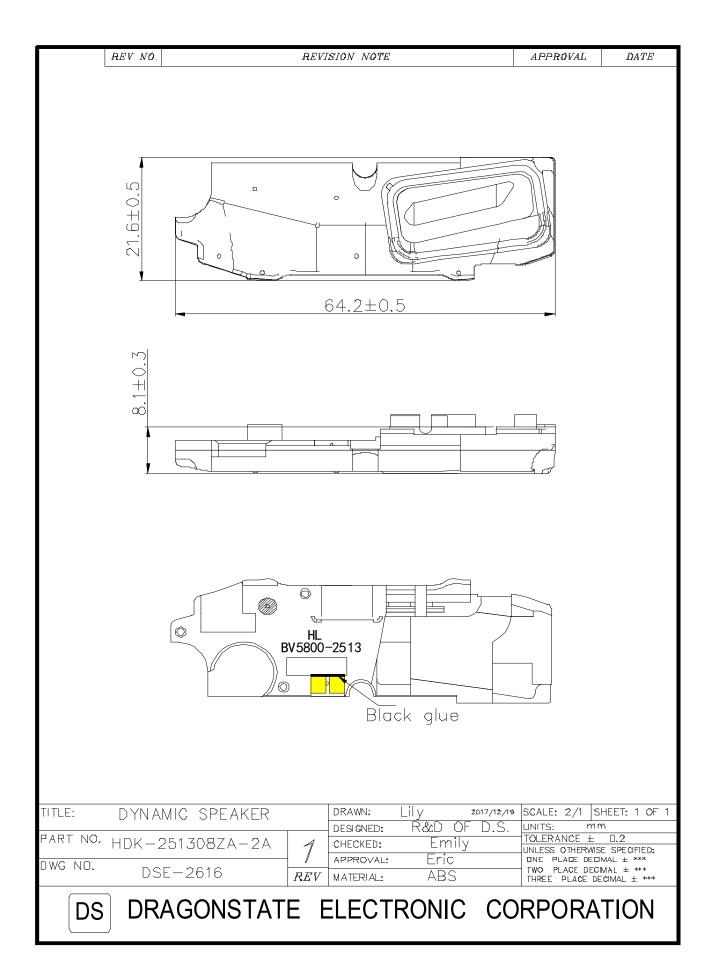




3.Dimension







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4.Reliablity tests

	Itoms	Specifications			
Items.		Specifications			
01	High temp. Test	Keep 96 hours at +85°C±3°C and leave 3 hours in normal			
		temperature and then check			
02	Low temp. Test	Keep 96 hours at -30°C±3°C and leave 3 hours in normal			
		temperature and then check			
03	Humidity test	Keep 96 hours at + 40°C±3°C relative humidity 95% and leave 3			
Ш		hours in normal temperature and then checked.			
		The part shall be subjected 5 cycles. One cycle shall be 12 hours and			
		consist of;			
04	Temp./Humidity cycle	90 ~ 95 % RH 65*C			
		25°C			
		0.5hr 6hrs 0.5hr 5hrs			
05	Thermal cycle test.	Low temperature: -30°C±3°C, temperature:+85°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.			
		Free drop from 100cm height to the concrete floor			
08	Free drop test	X, y, z 6 direction. 1 times each, total 6 times.			
09	Rated Power test	Rated Power white noise is applied for 96 hours in 1.5cc closebox			
		Protected against 30 minutes of immersion under 1M pressure			
10	Protection against liquids	Product without leakage			
11	Max Power test	Max power 1 min on – 2 min off 10 cycles.			
12	Terminal strength test	Capable of withstand 1kg load for 30 seconds without resulting in any			
		damage or rejection.			
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Criterion: After these test, the change of S.P.L shall be within ±3 dB.

SOLDERING CONDITION

Recommend using constant branding iron in $15 \sim 30W$, and in temperature range $350 \pm 10^{\circ}C$.



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5. History change record

Change Items	Date	Note	Drawn by	Checked by
	2017-04-06	First Issue	Lily	王台平 2017-04-06
引线改为 FPC	2017-04-12	Second Issue	Lily	王台平 2017-04-12