MESSRS.

SPECIFICATION FOR APPROVAL 承 认 书

Product	DYNAMIC SPEAKER
Part No.	ADK-10204ZC-1(RoHS)
Customer Approval	

Approved By	Checked By	Made By
王台平	曹丽萍	Lily
SEP-09-2013	SEP-09-2013	SEP-09-2013

常州华龙电子有限公司

DRAGONSTATE ELECTRONIC CORPORATION

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EDITION:1.1

1. SPECIFICATION ADK-10204ZC-1(RoHS)

	ITEM SPECIFICATIONS					
01	Туре	Dynamic speaker				
02	Dimension	External diameter 102*34 mm				
03	Rated Input Power	10W				
04	Max. Input Power	12W for 1 minute				
05	Impedance	4ohm ± 15% at 500Hz.				
06	Resonance Frequency (Fo)	150Hz ± 20% at Fo, 1V				
07	Sensitivity (S.P.L.)	88dB (1.0W / 0.5m) ± 3 dB	at AVE 1.0KHz			
08	Frequency Range	Fo – 10KHz				
09	Total Harmonics Distortion	Max 7 % at 1 KHz,1.0W.				
10	Voice Coil	Diameter 16mm				
11	Magnet	Rare earth permanent (Nd-Fe-B) magnet Ф60XФ32X8 mm				
12	Weight	260g ± 10%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 – 10W				
15	Buzz, Rattle, etc.	Should not be audible at 6.32V 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: -25°c to +70°c				

2. MEASURING METHOD

2-1 .Test Condition

STANDARD

Temperature: 15 ~ 35°C

Relative humidity: 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

JUDGEMENT

Temperature: 20±3°C

Relative humidity: 60% ~ 70%,

Atmospheric pressure: 860mbar to 1060mbar

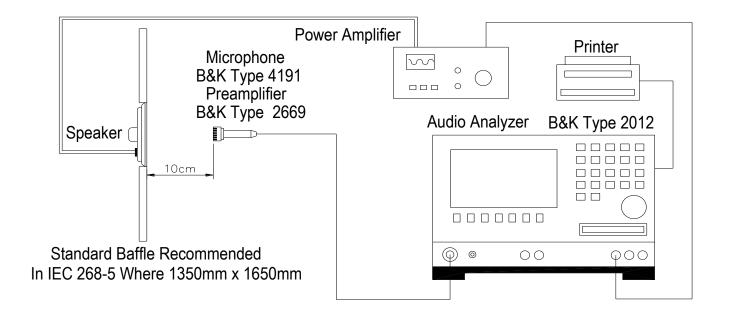
2-2 . Standard Test Fixture

1.Input Power: 1.0W(2.0V)

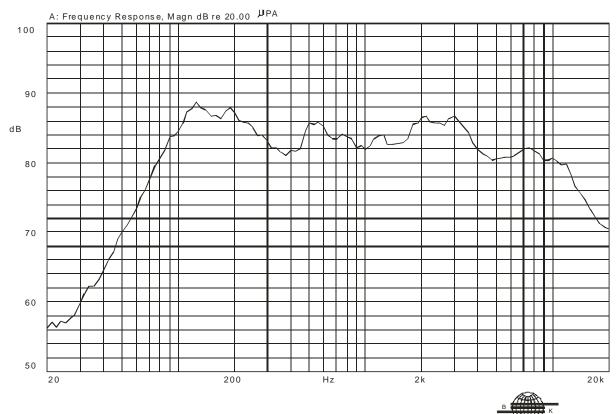
2.Zero Level : -dB 3.Mode : SPEAKER

4.potentiometer Range: 50dB

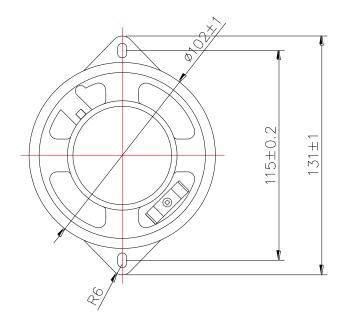
5.Sweep Time: 0.5sec

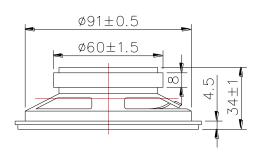


2-3. Frequency Response Curve



Mode: SPEAKER





TITLE:	DYNAMIC SPEAKER		DRAWN:	Lily 20	013/09/09	SCALE:	1:2	SHEET:	1 of 1
		ı	DESIGNED:	R&D OF D .	D.	UNITS:		m	
PART' NC	^{).} ADK-10204ZC-1	1	CHECKED:	Emily		TOLERA		± 0.2 :WISE SPE	CIFIED:
DWG NO.		/	APPROVAL:	Eric		ONE PLACE DECI		$ECIMAL \pm$	CIMAL ± ***
	DTS - 1587	REV	MATERIAL:	****				ECIMAL ± DECIMAL	



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3. RELIABLITY TESTS

	Items.	Specifications	
01	High temp. Test	Keep 96 hours at +70°C±3°C and leave 3 hours in normal temperature and then check	
02	Low temp. Test	Keep 96 hours at -20°C±3°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; 90 ~ 95 % RH 25'C 0.5hr 6hrs 0.5hr 5hrs	
05	Thermal cycle test.	Low temperature: -40°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	DC Voltage test	DC 11.0V for 1 hour.	
10	Load test	Rated Power white noise is applied for 96 hours	
11	Max Power test	Max power 1 min on – 1 min off 10 cycles.	
12	Terminal strength test	Capable of withstand 1kg load for 30 seconds without resulting in any damage or rejection.	