

SPECIFICATION

FOR APPROVAL

Description : Dynamic Speaker

ICC/Intervox Model No.: SB31X80-WCA

ISSUE	CHECK	APPROVAL	CUSTOMER
Wu ting 12/18/09	Tan qianfeng 12/18/09	Tang he lin 12/18/09	



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1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

	Item	Specifications
1-1	Dimension	80.0×31.1X14.9t
1-2	Rated Input Power	2.0W
1-3	Max Input Power	4.0W
1-4	Rated Impedance	$8 \pm 15\% \Omega$ /1KHz/1V
1-5	Resonance Frequency(f0)	$550 \pm 20\%$ Hz/1V
1-6	Sound Pressure Level	100 ± 3 dB at (AVG 1.0,1.2,1.5,2.0)KHz 0.1M/2.0W
1-7	Frequency Range	F0 ~ 8 KHz
1-8	Total Harmonic Distortion	5%MAX. at 1KHz, 1V
1-9	Flux Density	1.0T
1-10	Polarity	When a positive DC Current is applied to the voice coil terminal marked +or red ,the diaphragm shall move forward
1-11	Operation Test	Must be normal at sine wave and program source2.0W.
1-12	Buzz, Rattle, etc.	Should not be audible at4Vsine wave between (20 Hz ~ 2.2KHz)
1-13	Weight	55 ± 5 g
1-14	Voice Coil Diameter	ϕ 13.28mm
1-15	Magnet (NdFeB)	ϕ 12.5×2.5t mm
1-16	Appearance	Should not exist any obstacle to be harmful to normal operation; damages, cracks, rusts and distortions, etc.

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2.ENVIRONMENTAL TEST

	Item	Specifications
2-1	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
2-2	Low temp. Test	Keep 96 hours at $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
2-3	Humidity test	Keep 96 hours at $+40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ relative humidity 95% and leave 3 hours in normal temperature and then checked.
2-4	Thermal cycle test.	Low temperature: $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$, temperature: $+80^{\circ}\text{C} \pm 3^{\circ}\text{C}$, cycle: 1 hour/cycle each, and then keep 96 hours.
2-5	Vibration	10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.
2-6	Drop test	Free drop a unit from 100cm height to a board of 20mm thick x,y, z 6 direction. 1 times each, total 6 times.
2-7	Load test	Rated Power white noise is applied for 96 hours
2-8	Max Power test	Max power 1 min on – 2 min off 10 cycles.
2-9	Terminal strength test	Capable of withstand 1kg load for 15seconds without resulting in any damage or rejection.

PASS CRITERION :

After these test, the change of S.P.L shall be within ± 3 dB .

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3. MEASURING METHOD

3-1 .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

3-2 . Standard Test Fixture

1.Input Power : 2.0W(4 V)

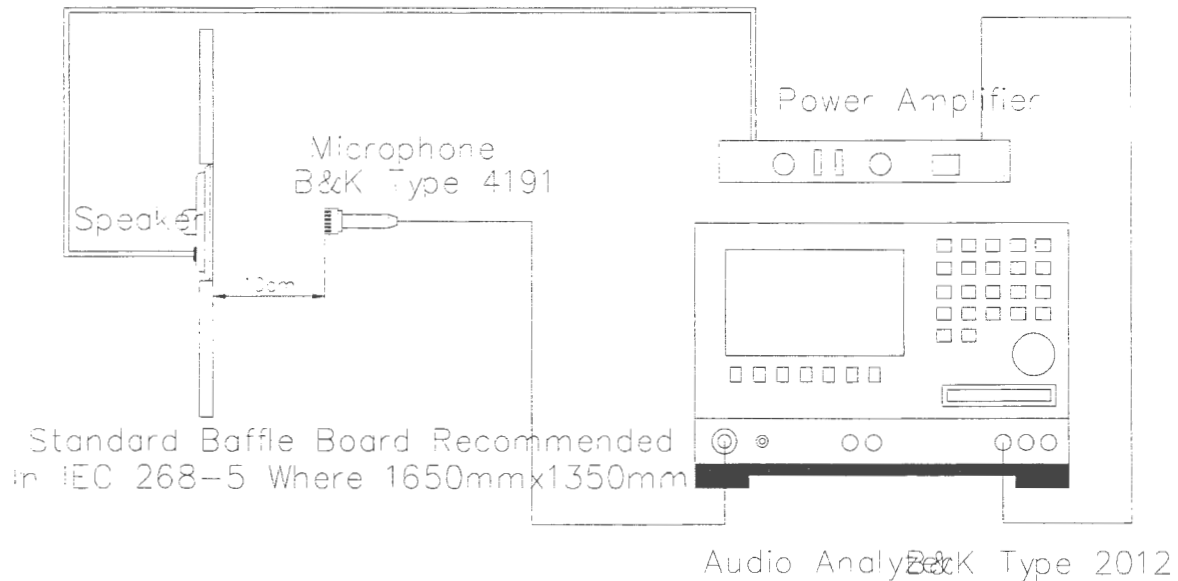
2.Zero Level : -dB

3.Mode : TSR

4.potentiometer Range : 50dB

5.Sweep Time : 0.5sec

Standard test condition of speaker



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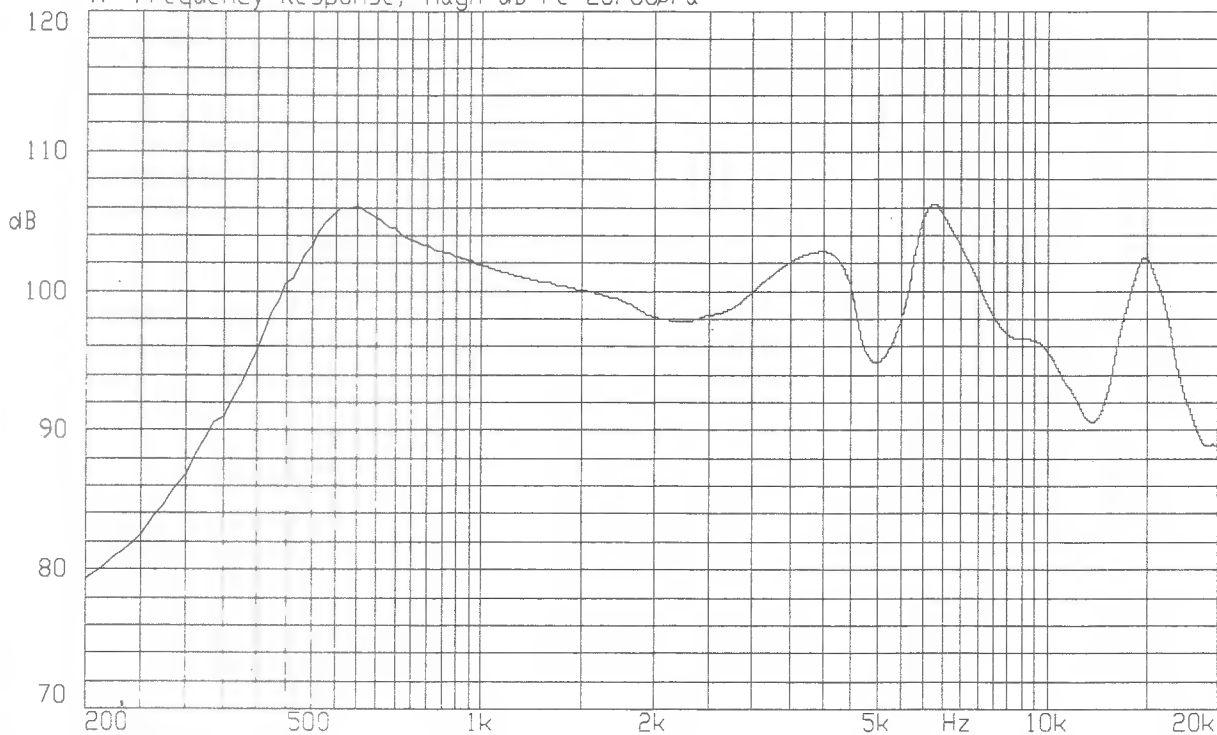
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4.FREQUENCY RESPONSE CURVE

0 1m 2W 4V

A: Frequency Response, Magn dB re 20.00µPa



30-JUL-2007 15 50 30

Mode: TSR



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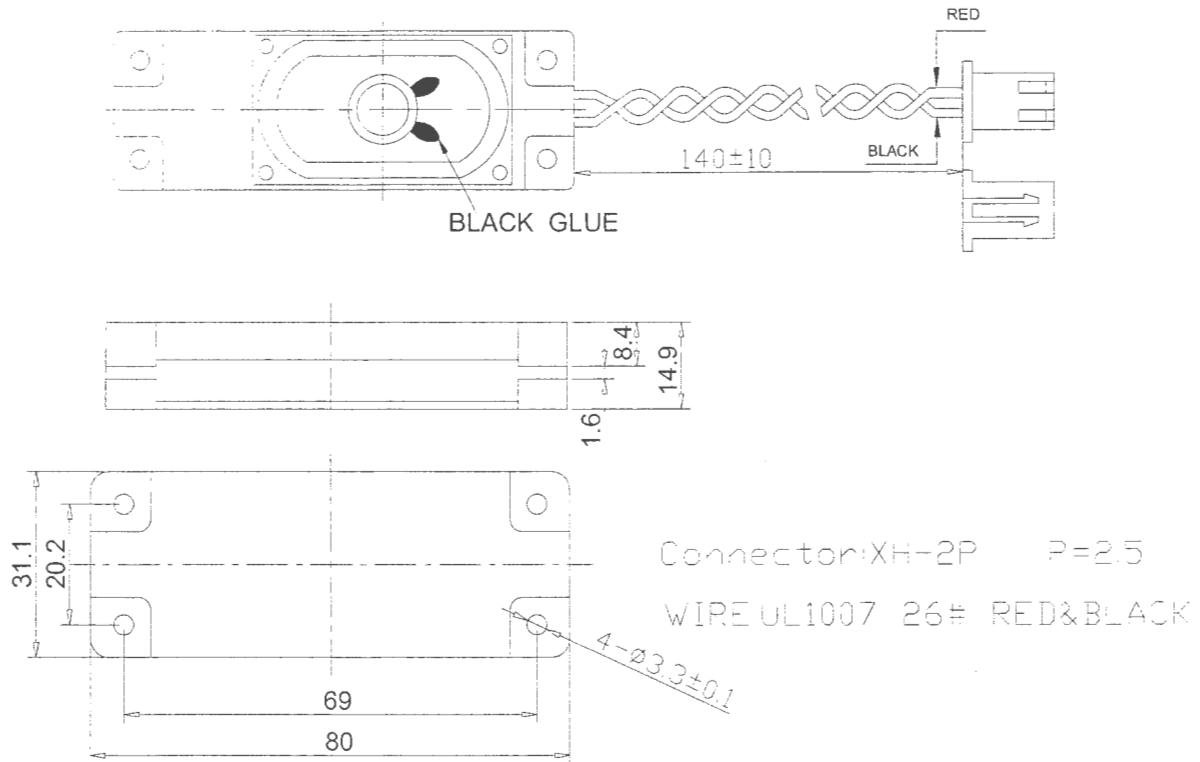
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5.DIMENSIONS

Unless otherwise specified, tolerance: ± 0.5 (unit: mm)



10	Wire	1	(UL1007 26#)	
9	Shrapne	1	Silk cloth	
8	PCB	1	EPOXY	
7	Plate	1	2.0t	
6	Magnet	1	Nd FeB	
5	Voice coil	1	CU	
4	Dust cap	1	PAPER	
3	Yoke	1	1.5T	
2	Cloth cone	1	Cloth	
1	Frame	1	ABS	
PART NO.	PART NAME	Q'TY	MATERIAL	REMARK

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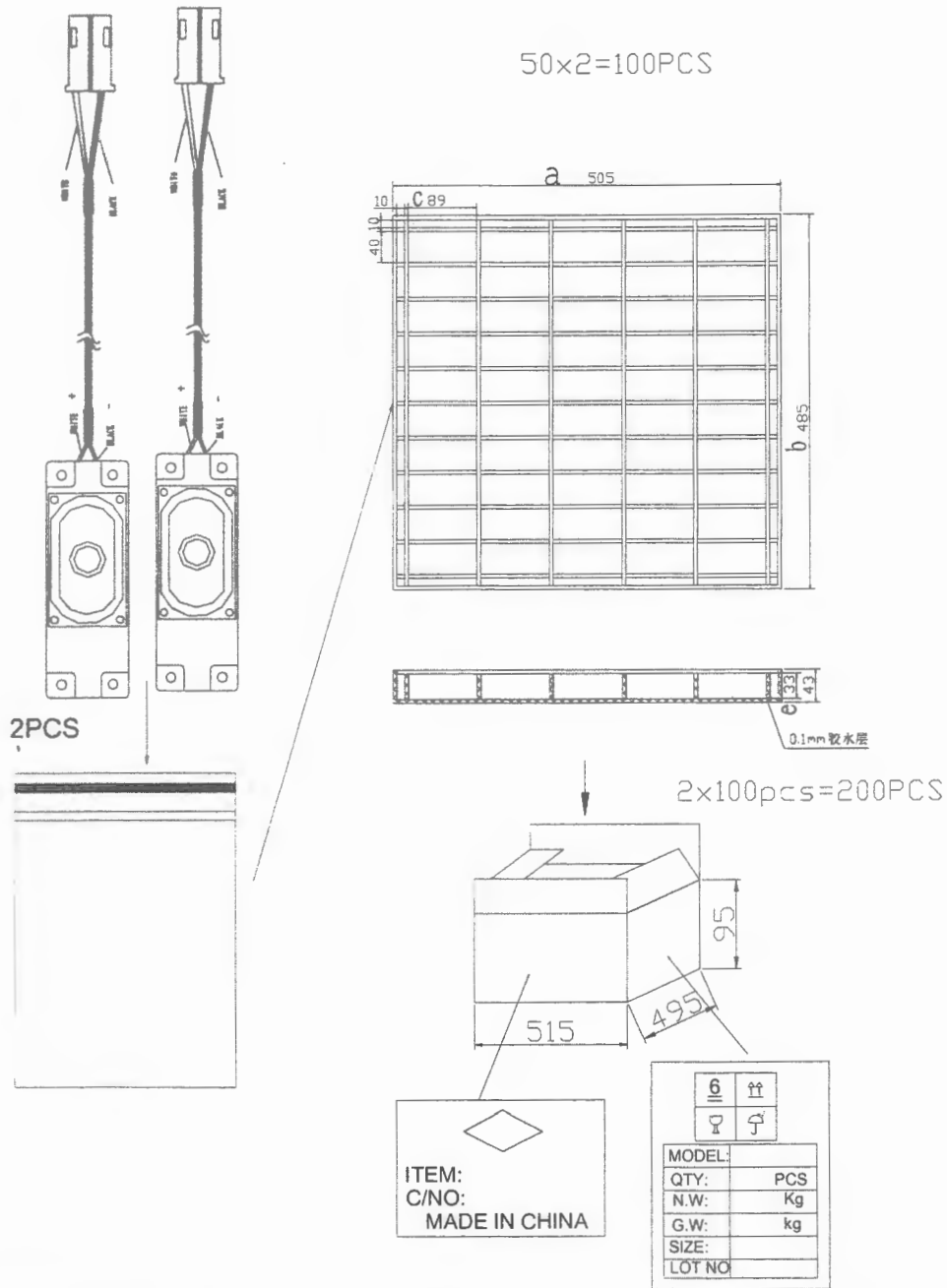
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6.PACKING



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