SPECIFICATION

FOR
APPROVAL

Customer :

Description : Dynamic Receiver

Model No. : SD152BH

Customer's Model No. :

CUSTOMER'S APPROVED SIGNATURE		

Changzhou E-Sound Electronics Co., Ltd.

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Approved by	Checked by	Issued by
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1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

(RECEIVER MODE)

	Item	Specifications
1-1	Dimension	φ31×11t
1-2	Rated Input Power	10mW
1-3	Max Input Power	20mW
1-4	Rated Impedance	150±30% Ω /1KHz/1V
1-5	Resonance Frequency(f0)	---------- Hz/1V
1-6	Sound Pressure Level	96±3dB at 1KHz with IEC318 coupler,60mV
1-7	MF Intensity Axial	≥-19dB at 1KHz /60mV(0dB=1A/m)
1-8	MF Intensity Radial	≥-22dB at 1KHz /60mV(0dB=1A/m)
1-9	Frequency Range	300HZ ~ 3400Hz
1-10	Total Harmonic Distortion	5%MAX. at 1KHz, 10mW
1-11	Flux Density	/T
1-12	Polarity	When a positive DC Current is applied to the voice coil terminal marked +or red ,the diaphram shall move forward
1-13	Operation Test	Must be normal at sine wave and program source 10mW.
1-14	Buzz,Rattle,etc.	Should not be audible at 10mW sine wave between (20Hz ~ 2200Hz)
1-15	Weight	15g
1-16	Voice Coil Diameter	φ7.4mm
1-17	Magnet (nd)	φ22.3× φ10×3t mm
1-18	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 +60℃±3℃ and leave 3 hours in normal temperature and then check
2-2	Low temp. Test	Keep 96 hours at -20℃±3℃ and leave 3 hours in normal temperature and then check
2-3	Humidity test	Keep 96 hours at + 40℃±3℃ relative humidity 95% and leave 3 hours in normal temperature and then checked.
2-4	Thermal cycle test.	Low temperature: -20℃±3℃, temperature:+60℃±3℃, cycle: 1 hour/cycle each, and then keep 5 cycles in a room.
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 from 70cm 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 .

3.MEASURING METHOD

3-1 .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

3-2 . Standard Test Fixture

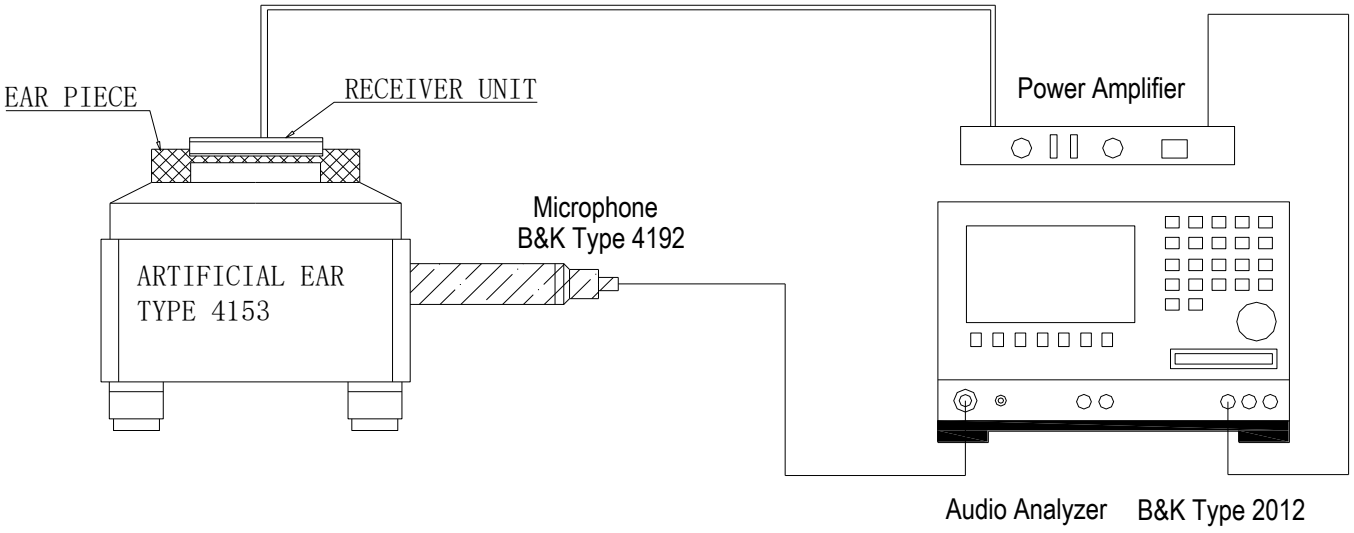
1.Input Power : 60mV

2.Zero Level : -dB

3.Mode : TSR

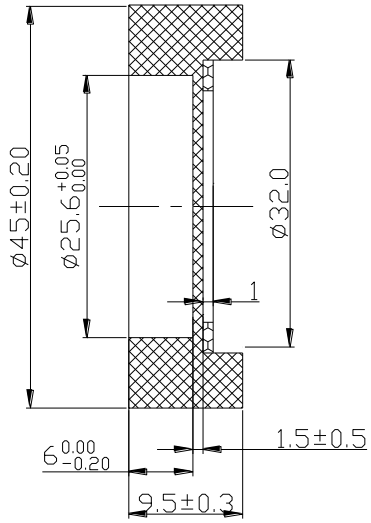
4.potentiometer Range : 50dB

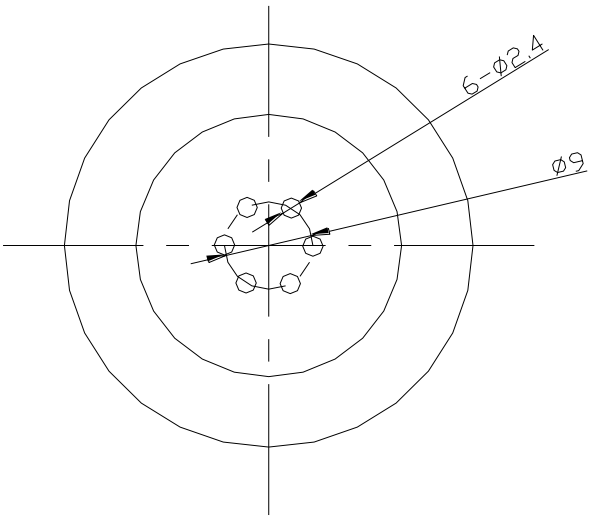
5.Sweep Time : 0.5sec



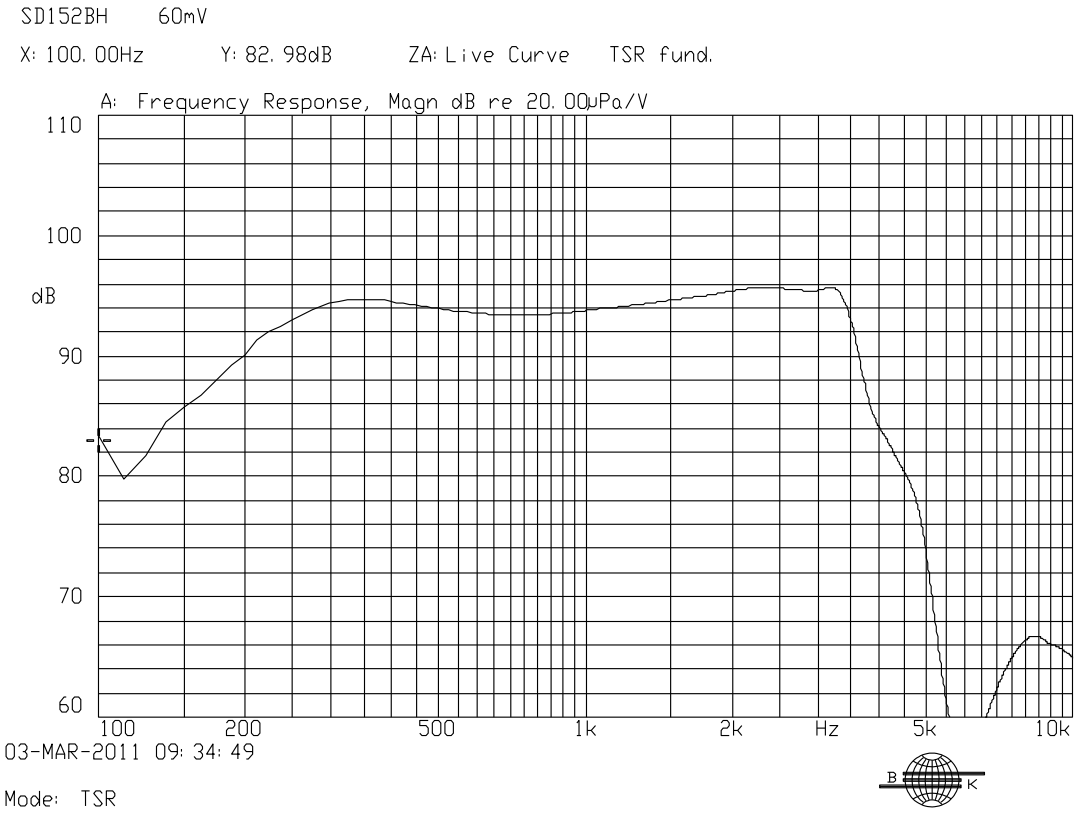
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4.EAR PIECE





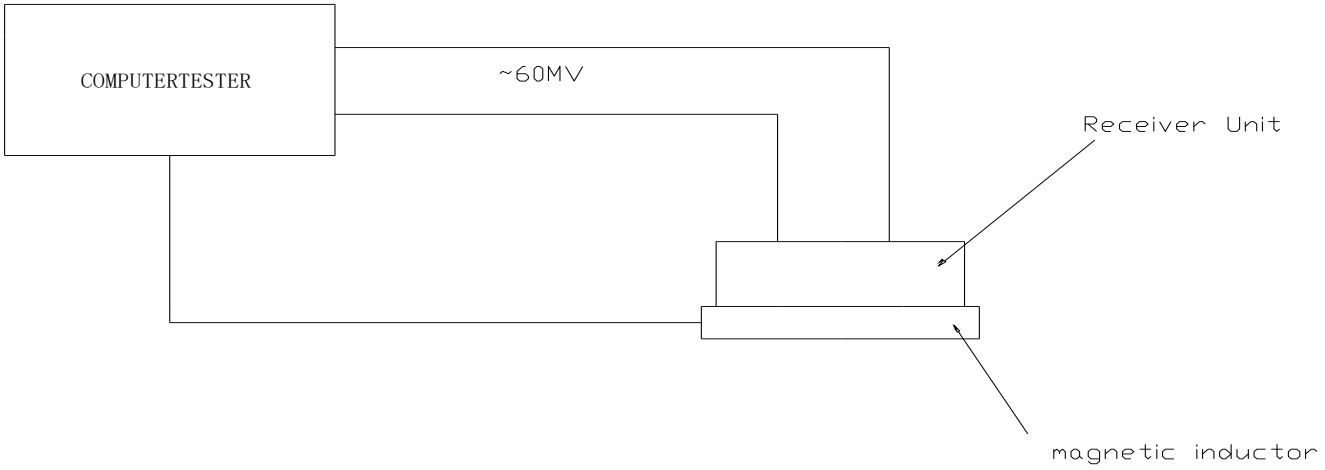
5.FREQUENCY RESPONSE CURVE

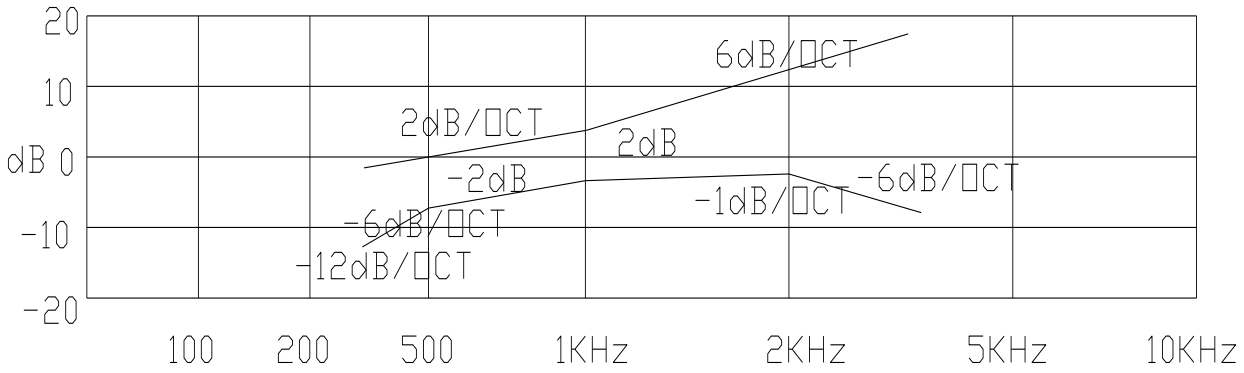


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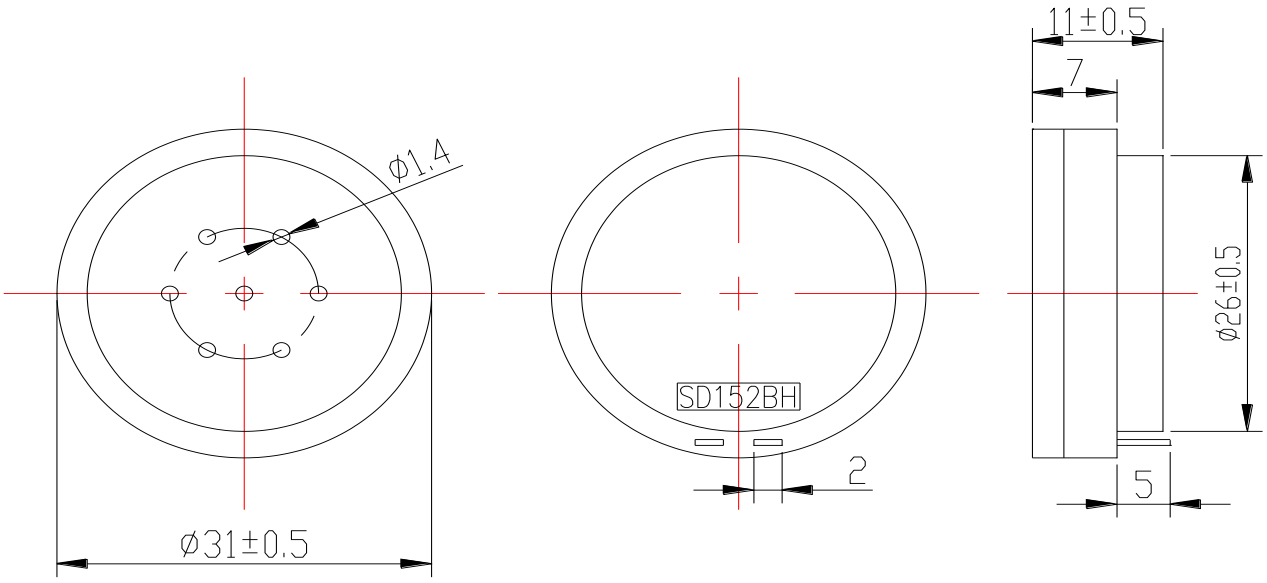
6.HAC Measurement and envelop diagram





7.DIMENSIONS

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

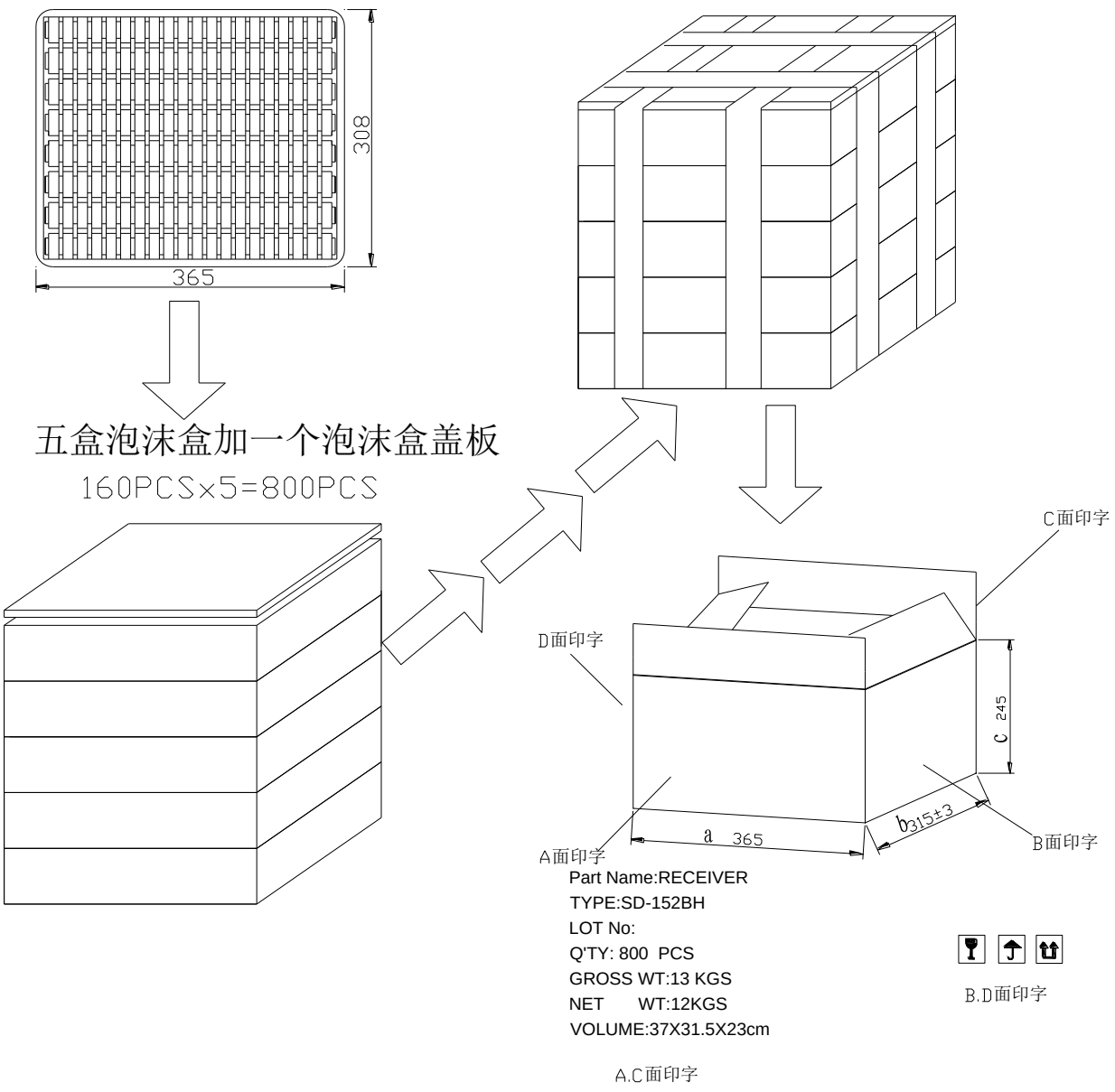


PART NO.	PART NAME	Q'TY	MATERIAL	REMARK
7	PIN	1	Cu	GU-001
6	Magnet	1	Ferrite	GU-001
5	Voice coil	1	Self-bonding wire	GU-001
4	Diaphragm	1	PET	GU-001
3	Back cover	1	ABS	GU-001
2	Front cover	1	ABS	GU-001
1	Frame	1	ABS +Yoke	GU-001

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8.PACKING



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