

MESSRS.

SPECIFICATION FOR APPROVAL

承 认 书

PRODUCT	WATERPROOF TYPE RECEIVER
PART NO.	HDR-120632ZA-8P (ROHS)
CUSTOMER	
CUSTOMER PART NO.	

APPROVED BY	CHECKED BY	MADE BY
王台平 APR-18-2018	曹丽萍 APR-18-2018	LILY APR-18-2018

常 州 华 龙 电 子 有 限 公 司

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EDITION: 1. 1

1. Specification

HDR-120632ZA-8P (RoHS)

ITEMS.		SPECIFICATIONS
01	Type	Dynamic 12 x 6mm receiver unit
02	Sensitivity (S.P.L)	110dB $\pm$ 3 dB at 1kHz 0.179V
03	Impedance.	32 Ohm $\pm$ 15% at 1KHz
04	Resonance Frequency (F0)	400HZ $\pm$ 20% AT F0, 1V
05	Magnet Field Intensity.	Axial - dB , Radial - dB at 1KHz
06	Nominal Input Power	10mW
07	Max. Input Power.	Must be normal at a white noise, 20mW for 1 minute.
08	Dustproof And Waterproof	IP67 (1 metre 30 minutes)
09	Total Harmonics Distortion	Max 10 % at 1K Hz.
10	Operation temperature	-30℃ to +70℃
11	Storage temperature	-40℃ to +80℃
12	Weight.	0.32g $\pm$ 5%

2. Measuring method

2-1. Test Condition

Standard

Temperature : 15 ~ 35℃

Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

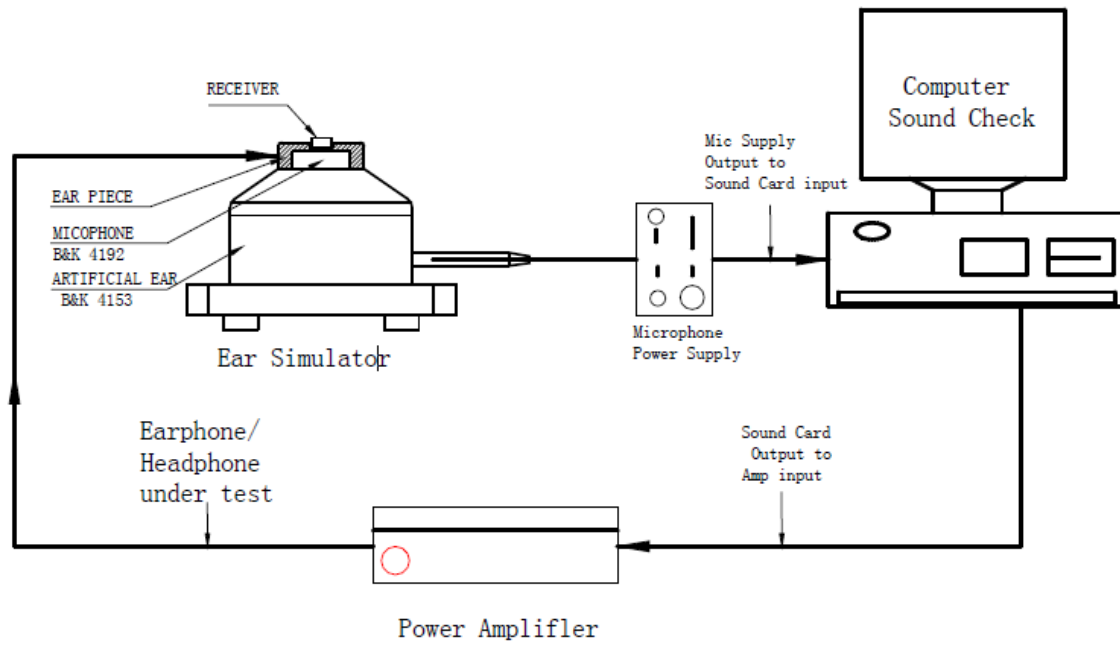
Judgement

Temperature : 20 $\pm$ 3℃

Relative humidity : 60% ~ 70%,

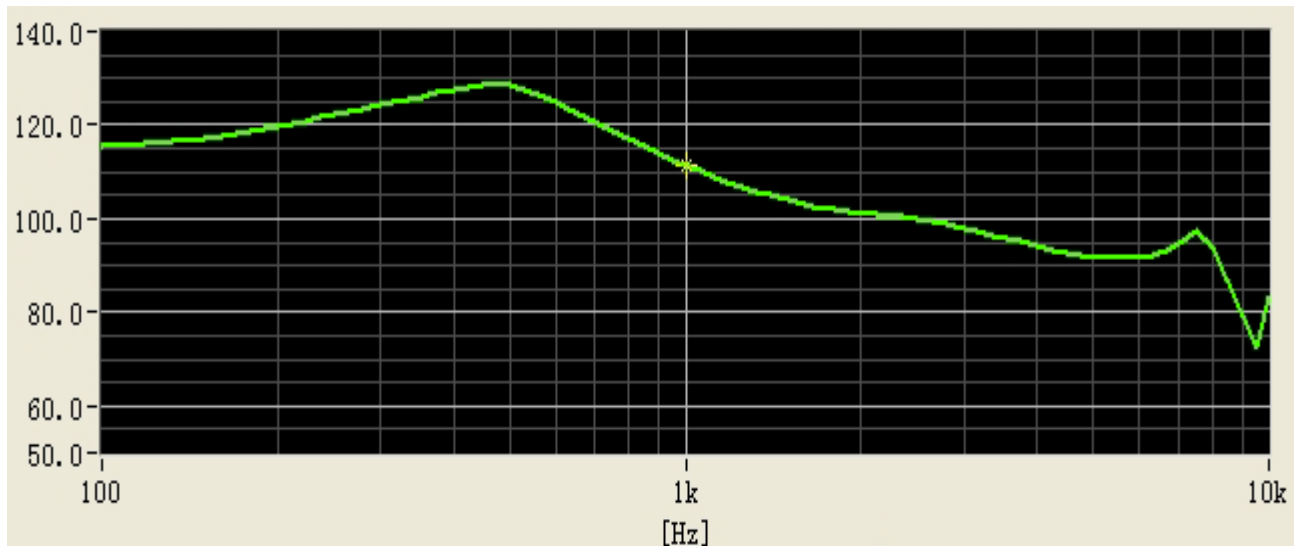
Atmospheric pressure : 860mbar to 1060mbar

2-2. Standard Test Fixture

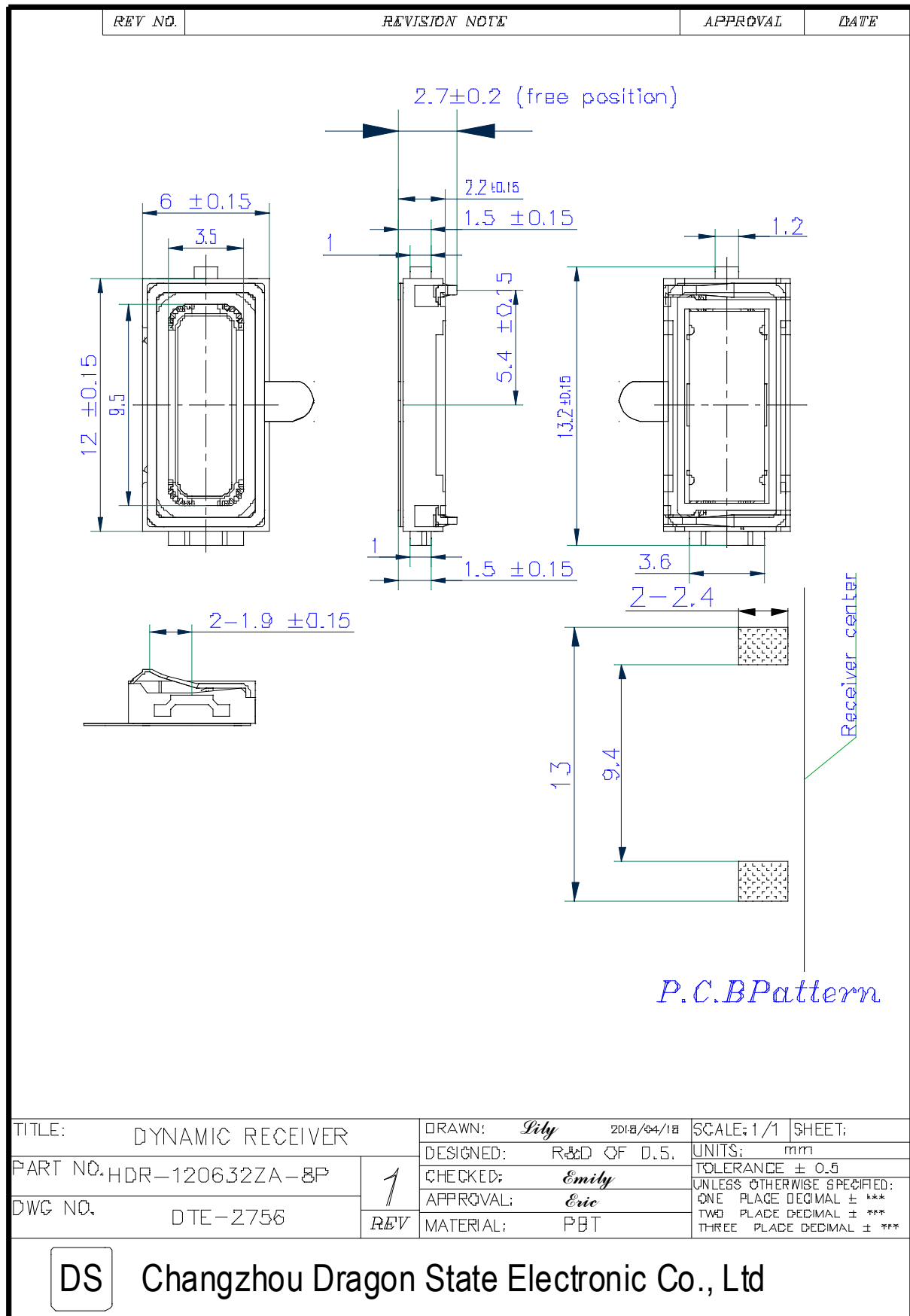


Input signal : 0.179V

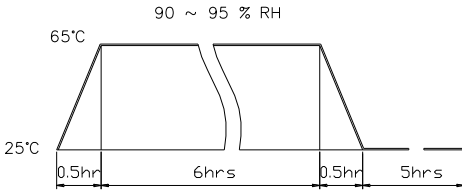
2.3 Frequency Response Curve



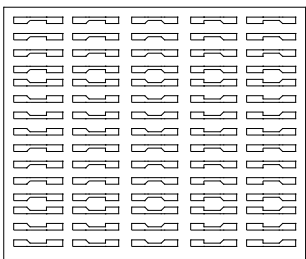
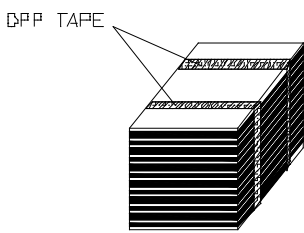
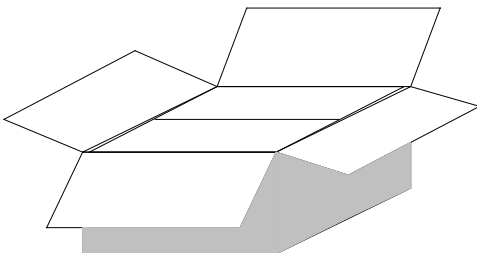
3. Dimension



4. Reliability Test

ITEMS.		SPECIFICATIONS
01	High temp. Test	Keep 96 hours at $+80^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
02	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
03	Humidity test	Keep 96 hours at $+40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ relative humidity 90% 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;  The diagram shows a temperature profile over time. It starts at 25°C, ramps up to 65°C in 0.5 hours, holds at 65°C for 6 hours, ramps down to 25°C in 0.5 hours, and then holds at 25°C for 5 hours. Above the 65°C plateau, it indicates 90 ~ 95 % RH.
05	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 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	Load test	Rated powerPink noise is applied for 96 hours
10	Protection against liquids	Protected against 30 minutes of immersion under 1m pressure
11	Max Power test	Max Power 1 min on - 2 min off 10 cycles.

5. Packing

REV NO.	REVISION NOTE	APPROVAL	DATE
 Cover{285*235*5mm} Material: Paper  Box{285*230*10mm} 150pcs Material: Paper+Epe  DPP TAPE Middle{285*230*120mm} 1500pcs(10*150pcs) Material: Paper+Epe  Outer Box{490*360*350mm} 9000pcs(6*1500pcs) Material: Paper 单位: mm			
TITLE: packing		DRAWN: Lily 2013/12/26	
PART NO.		DESIGNED: R&D DF D.S.	
DWG NO.		CHECKED: Emily	
		APPROVAL: Eric	
		MATERIAL: xxx	
REV		SCALE: 2:1	
		SHEET: 1 of 1	
		UNITS: mm	
		TOLERANCE	
		20~11 ± 0.3	
		10~5 ± 0.2	
		<4 ± 0.1	



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