

MESSRS.

SPECIFICATION FOR APPROVAL**承 認 书**

PRODUCT	WATERPROOF TYPE RECEIVER
PART NO.	HDR-120632ZA-9P (ROHS)
CUSTOMER	
CUSTOMER PART NO.	

APPROVED BY	CHECKED BY	MADE BY
王台平 AUG-12-2018	曹丽萍 AUG-12-2018	LILY AUG-12-2018

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

1. Specification

HDR-120632ZA-9P (RoHS)

ITEMS.		SPECIFICATIONS
01	Type	Dynamic 12 x 6mm receiver unit
02	Sensitivity (S.P.L)	108 dB \pm 3 dB at 1kHz 0.179V
03	Impedance.	32 Ohm \pm 15% (at 179mVrms, 2kHz, when measured at terminals)
	DC resistance	28.8 Ohm \pm 10% at 1KHz
04	Resonance Frequency (FO)	400HZ \pm 20% AT FO, 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°C to +70°C
11	Storage temperature	-40°C to +80°C
12	Weight.	0.32g \pm 5%

2. Measuring method

2-1. Test Condition

Standard

Temperature : 15 ~ 35°C

Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

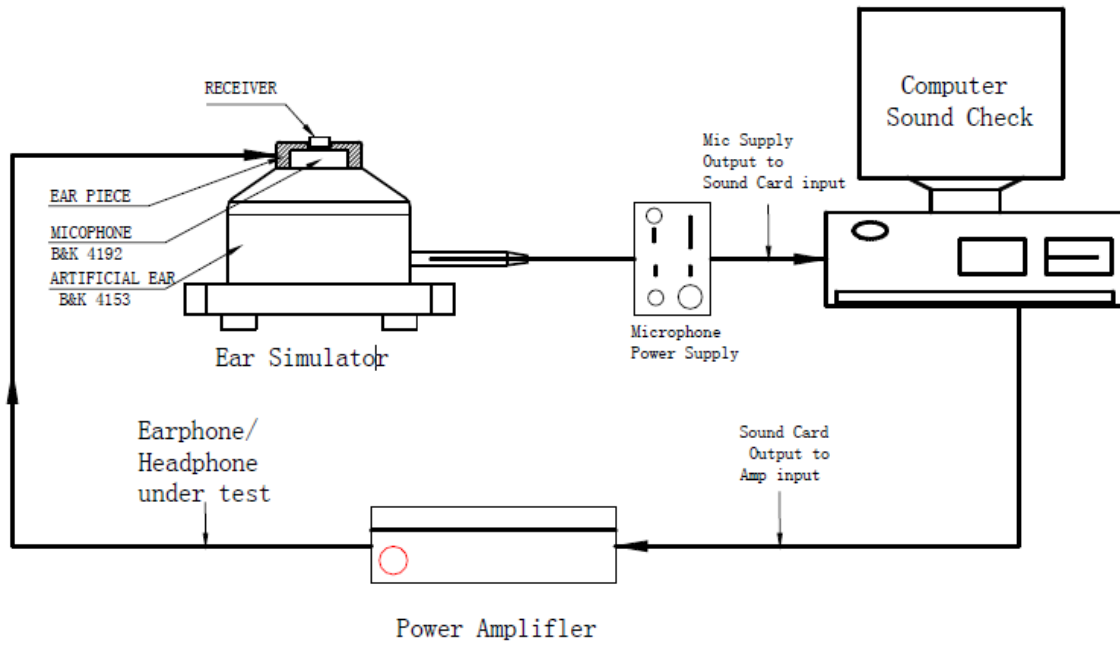
Judgement

Temperature : 20 \pm 3°C

Relative humidity : 60% ~ 70%,

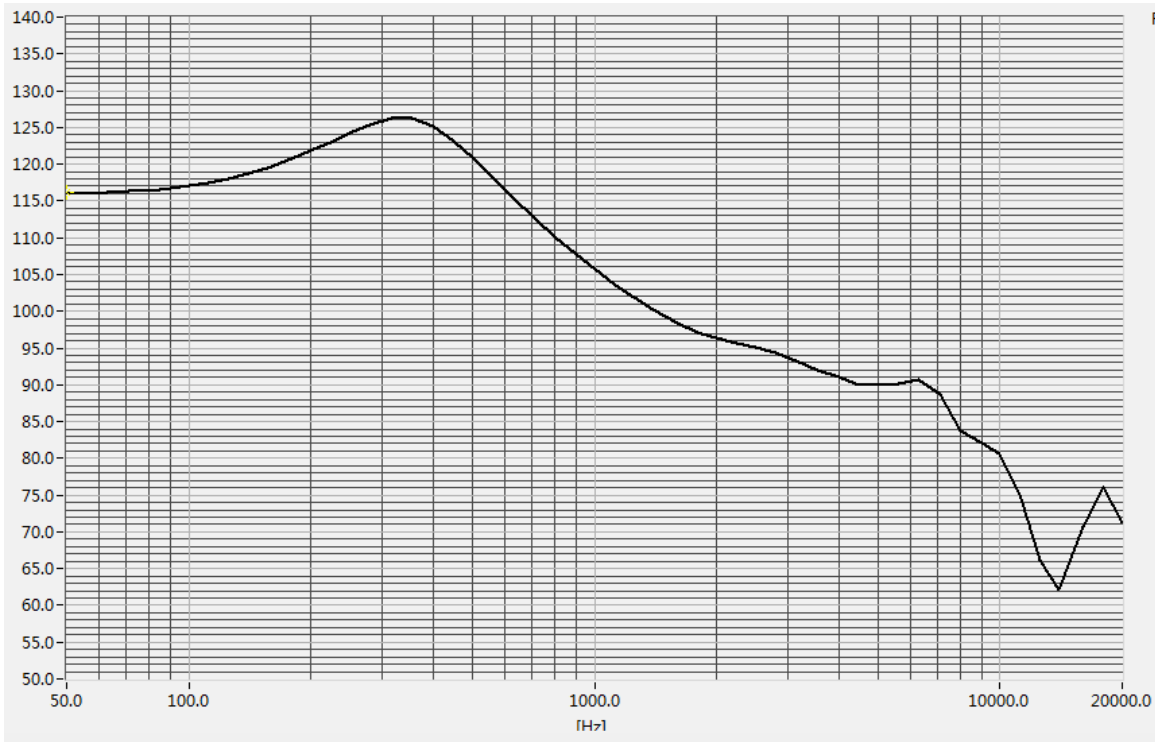
Atmospheric pressure : 860mbar to 1060mbar

2-2. Standard Test Fixture

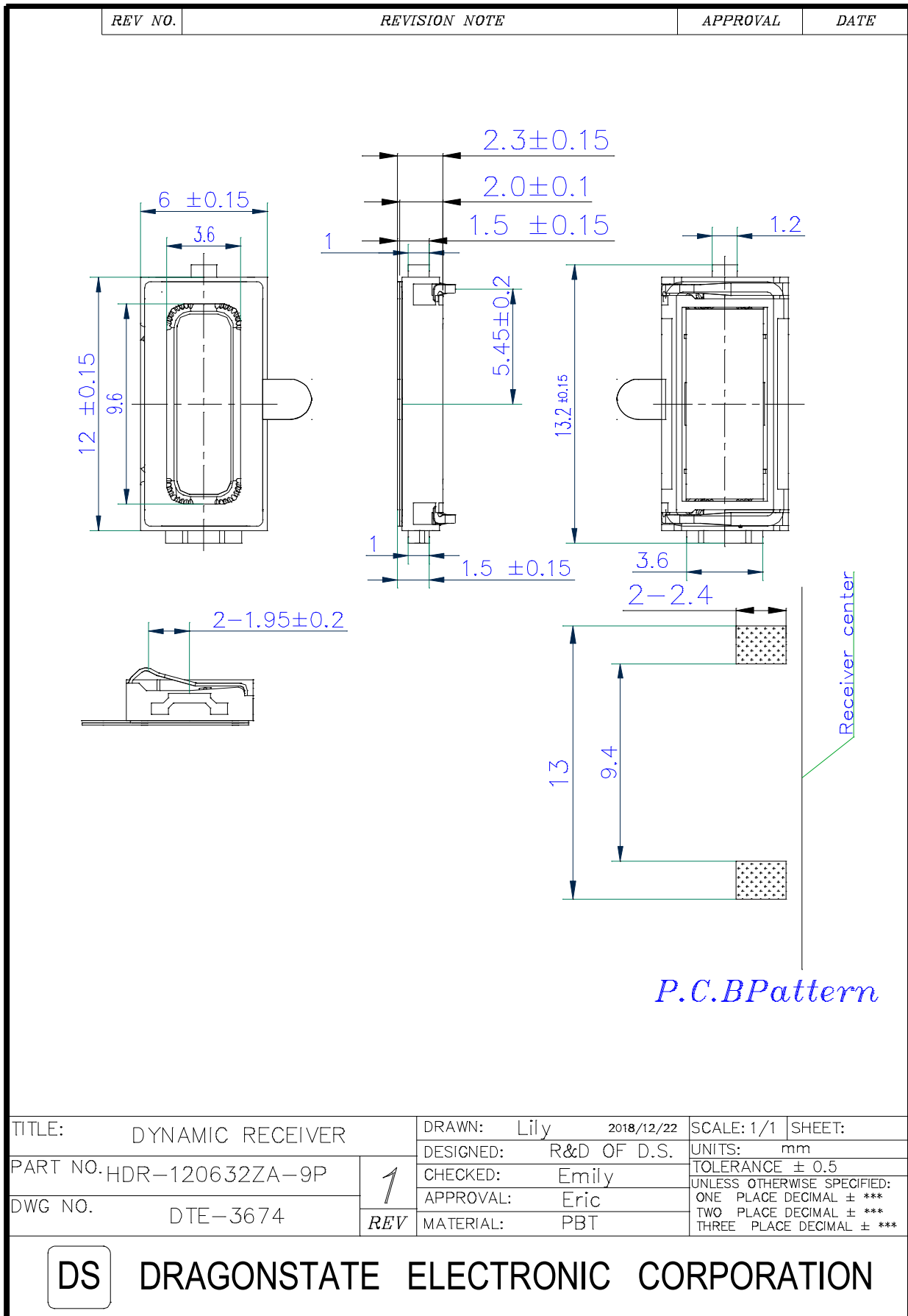


Input signal : 0.179V

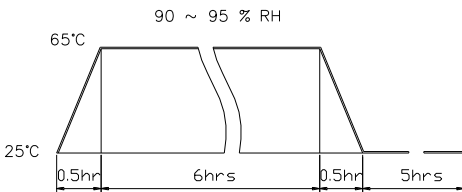
2.3 Frequency Response Curve



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	<p>The part shall be subjected 5 cycles. One cycle shall be 12 hours and consist of;</p> 
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 power Pink 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

