

MESSRS.**SPECIFICATION FOR APPROVAL****承 认 书**

PRODUCT	WATERPROOF TYPE RECEIVER
PART NO.	HDR-080932ZA-3P (ROHS)
CUSTOMER	
CUSTOMER PART NO.	

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

常 州 华 龙 电 子 有 限 公 司

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EDITION:1.1

1. Specification

HDR-080932ZA-3P (RoHS)

ITEMS.		SPECIFICATIONS
01	Type	Dynamic 08 x 09mm receiver unit
02	Sensitivity (S.P.L)	120dB $\pm$ 3 dB at 1kHz 0.8V
03	Impedance.	32 Ohm $\pm$ 15%
	DC Resistance	28 Ohm $\pm$ 15%
04	Resonance Frequency (FO)	430HZ $\pm$ 20% AT FO, 1V
05	Magnet Field Intensity.	Axial – dB , Radial –dB at 1KHz
06	Nominal Input Power	20mW
07	Max. Input Power.	Must be normal at a white noise,40mW for 1 minute.
08	Total Harmonics Distortion	Max 10 % at 1K Hz.
09	Dustproof And Waterproof	IP68
10	Operation temperature	-30°C to +70°C
11	Storage temperature	-40°C to +80°C
12	Weight.	0.3g $\pm$ 5%

2. Measuring method

2-1. Test Condition

Standard

Temperature : 15 ~ 35℃

Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

Judgement

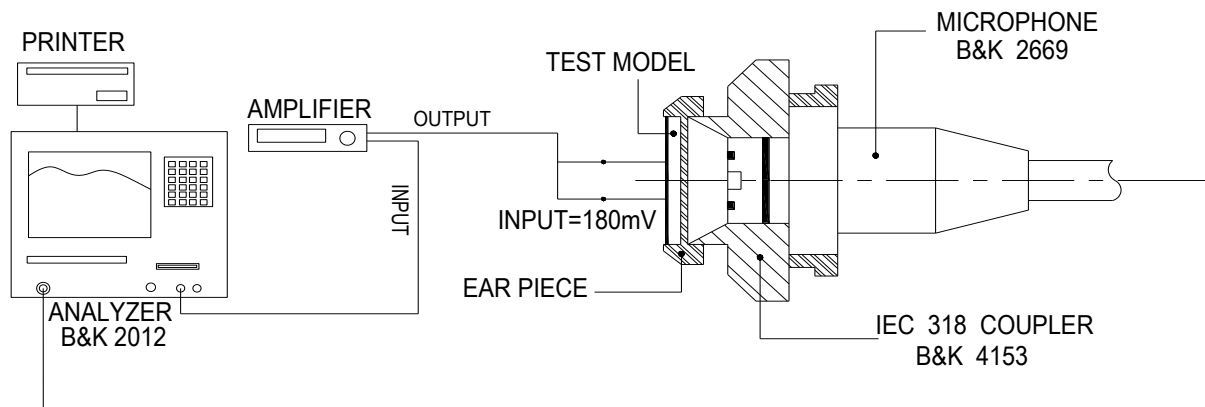
Temperature : 20±3℃

Relative humidity : 60% ~ 70%,

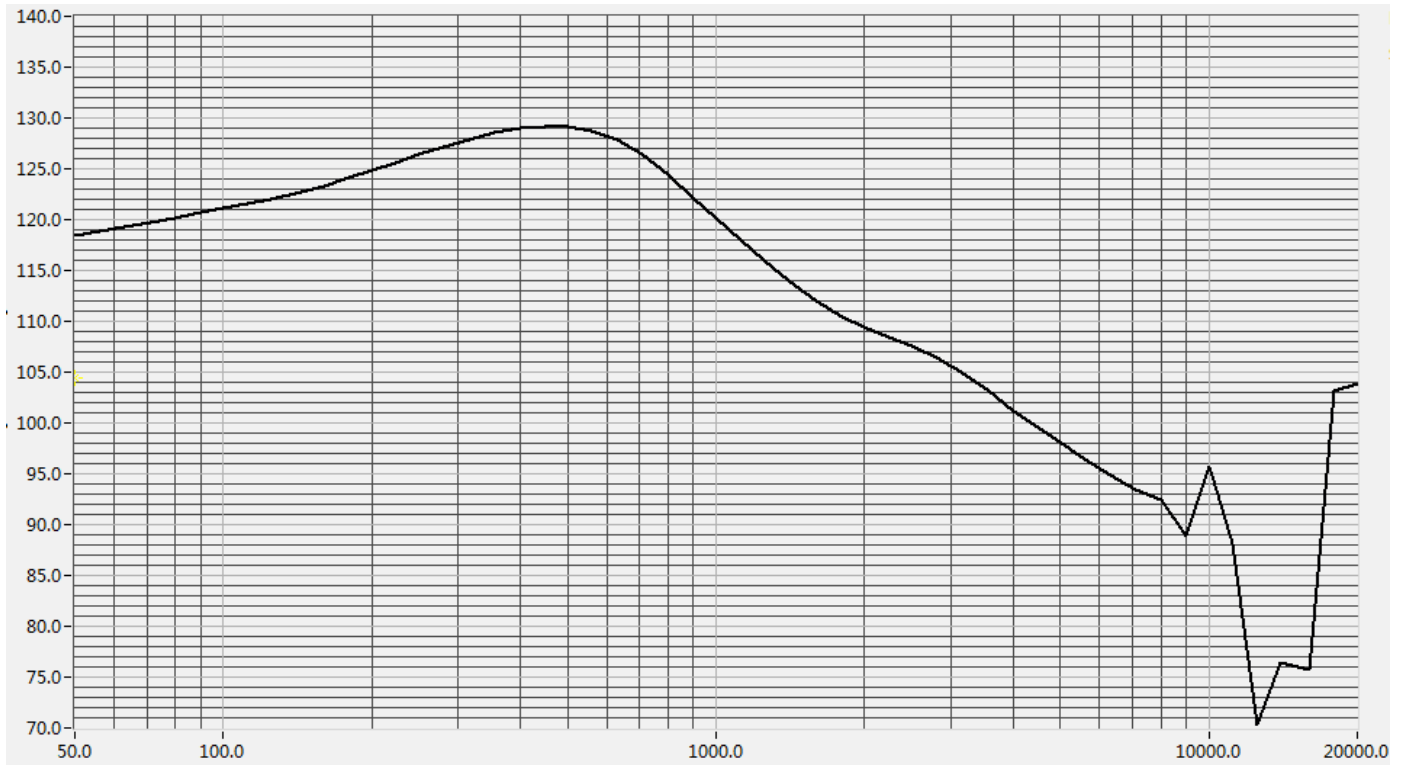
Atmospheric pressure : 860mbar to 1060mbar

2-2. Standard Test Fixture

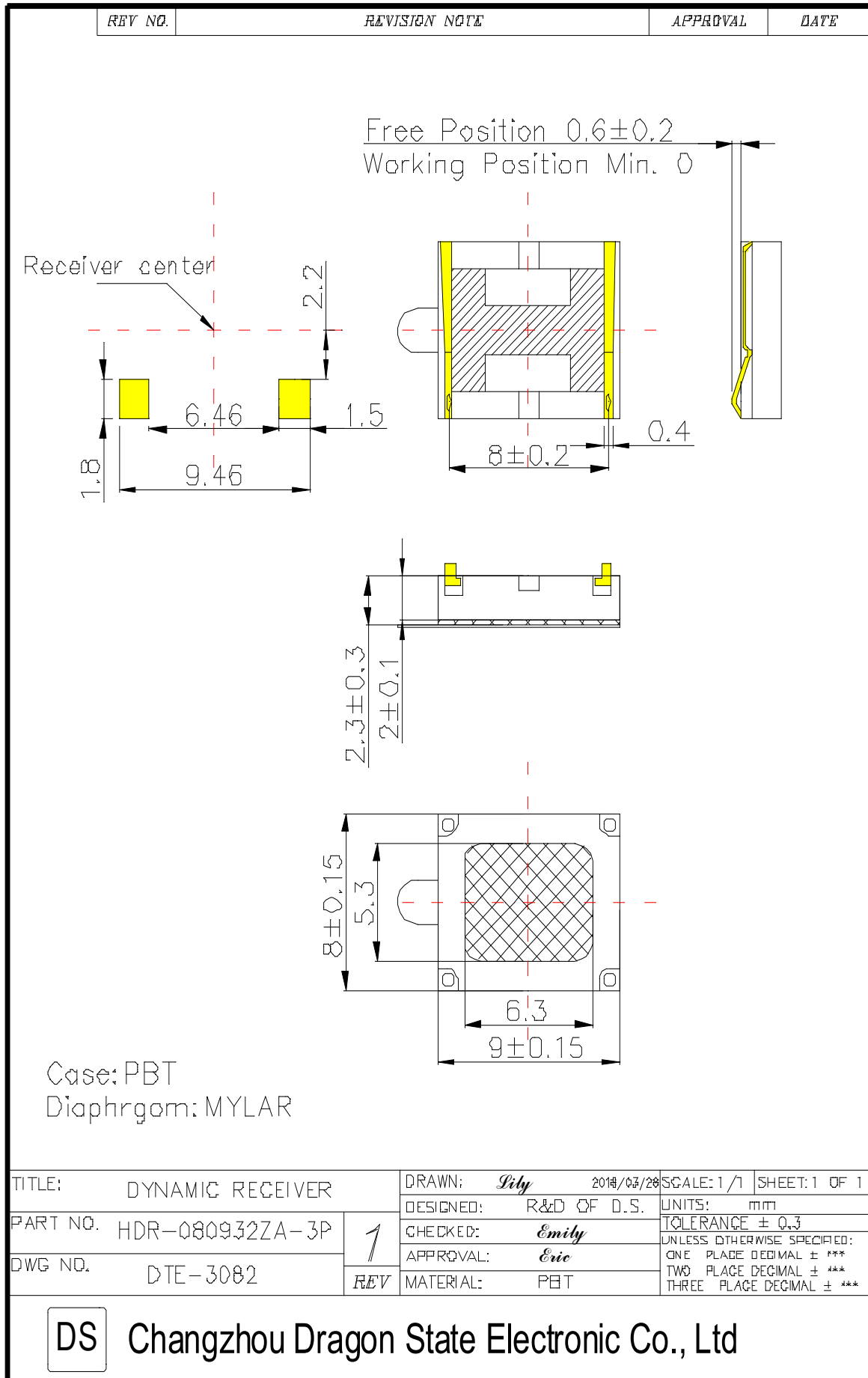
Input signal : 0.8V



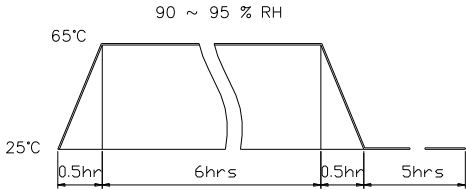
2-3 Frequency Response Curve



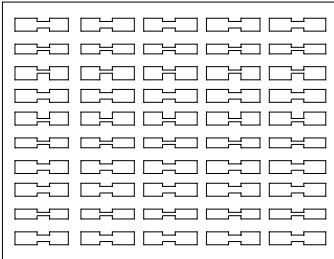
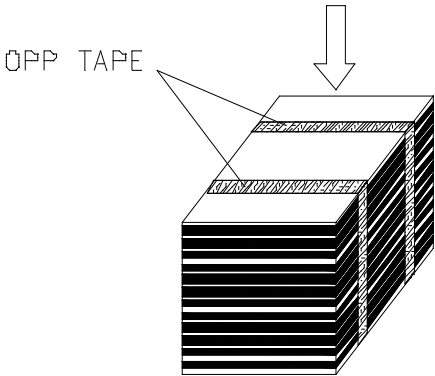
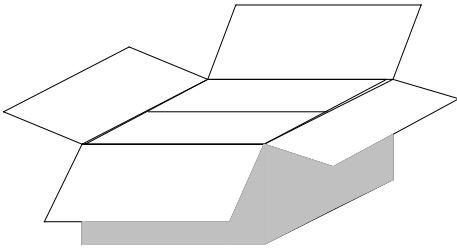
3.Dimension



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 graph 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. The humidity is specified as 90 ~ 95 % RH during the 6-hour high-temperature hold.
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 white noise is applied for 96 hours
10	Protection against liquids	Protected against 1 hour of immersion under 2m pressure
11	Max Power test	Max Power 1 min on – 2 min off 10 cycles.

5.Packing

REV NO.	REVISION NOTE	APPROVAL	DATE
	 Cover(290*225*3mm) Material: Paper		
	 Box(290*225*10mm) 100pcs Material: Paper+Epe		
	 OPP TAPE Middle(290*225*135mm) 1000pcs(10*100pcs) Material: Paper+Epe		
	 Outer Box(515*320*280mm) 4000pcs(4*1000pcs) Material: Paper		
单位: mm			
TITLE: Packing		DRAWN: Lily 2018/10/17 SCALE: 2:1 SHEET: 1 of 1	
PART NO.	1	DESIGNED: R&D OF D.S.	
		CHECKED: Emily	
DWG NO.		APPROVAL: Eric	
	REV	MATERIAL:	<4 ± 0.1
DS Changzhou Dragon State Electronic Co., Ltd			