

MESSRS.

SPECIFICATION FOR APPROVAL**承 認 书**

PRODUCT	WATERPROOF TYPE RECEIVER
PART NO.	HDR-150632RA-13P (ROHS)
CUSTOMER	
CUSTOMER PART NO.	

APPROVED BY	CHECKED BY	MADE BY
王台平 AUG-19-2016	曹丽萍 AUG-19-2016	LILY AUG-19-2016

常 州 华 龙 电 子 有 限 公 司
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EDITION:1.1

1. Specification

HDR-150632RA-13P (RoHS)

ITEMS.		SPECIFICATIONS
01	Type	Dynamic 15 x 6mm receiver unit
02	Sensitivity (S.P.L)	109dB \pm 3 dB at 1kHz 180mV with IEC 318 coupler
03	Impedance.	32 Ohm \pm 15% at 1KHz
04	Resonance Frequency (FO)	450HZ \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, 30mW for 1 minute.
08	Total Harmonics Distortion	Max 10 % at 1K Hz.
09	Dustproof And Waterproof	IP67
10	Operation temperature	-30°C to +70°C
11	Storage temperature	-40°C to +80°C
12	Weight.	0.5g \pm 5%

2. Measuring method

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

JUDGEMENT

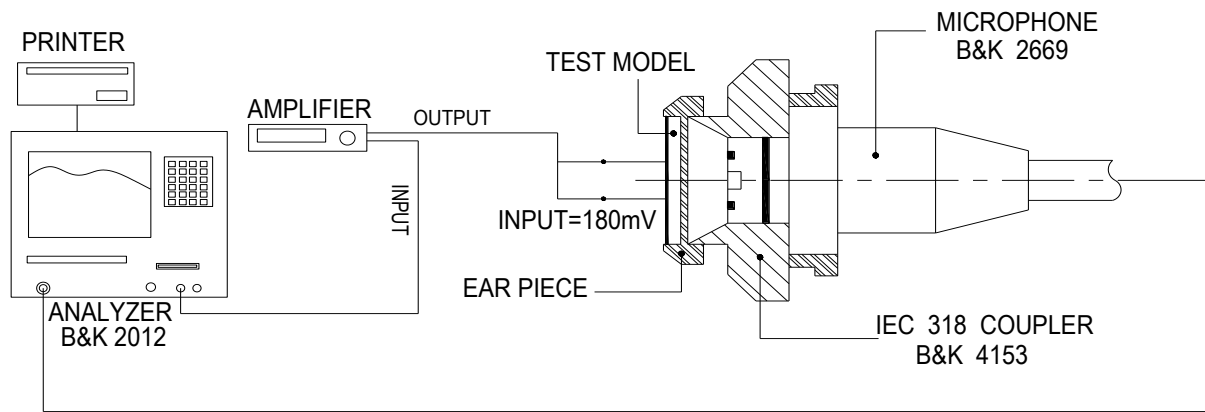
 Temperature : 20 \pm 3°C

Relative humidity : 60% ~ 70%,

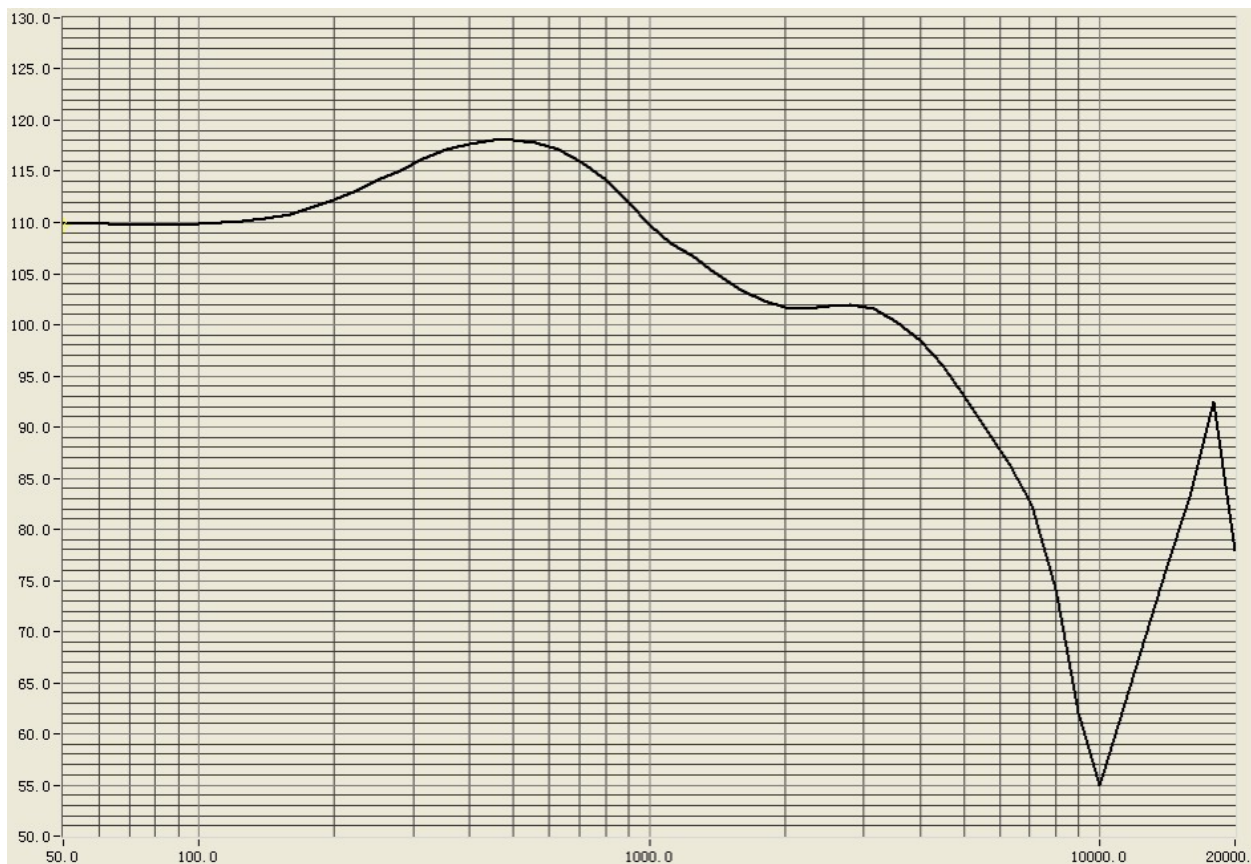
Atmospheric pressure : 860mbar to 1060mbar

2-2. Standard Test Fixture

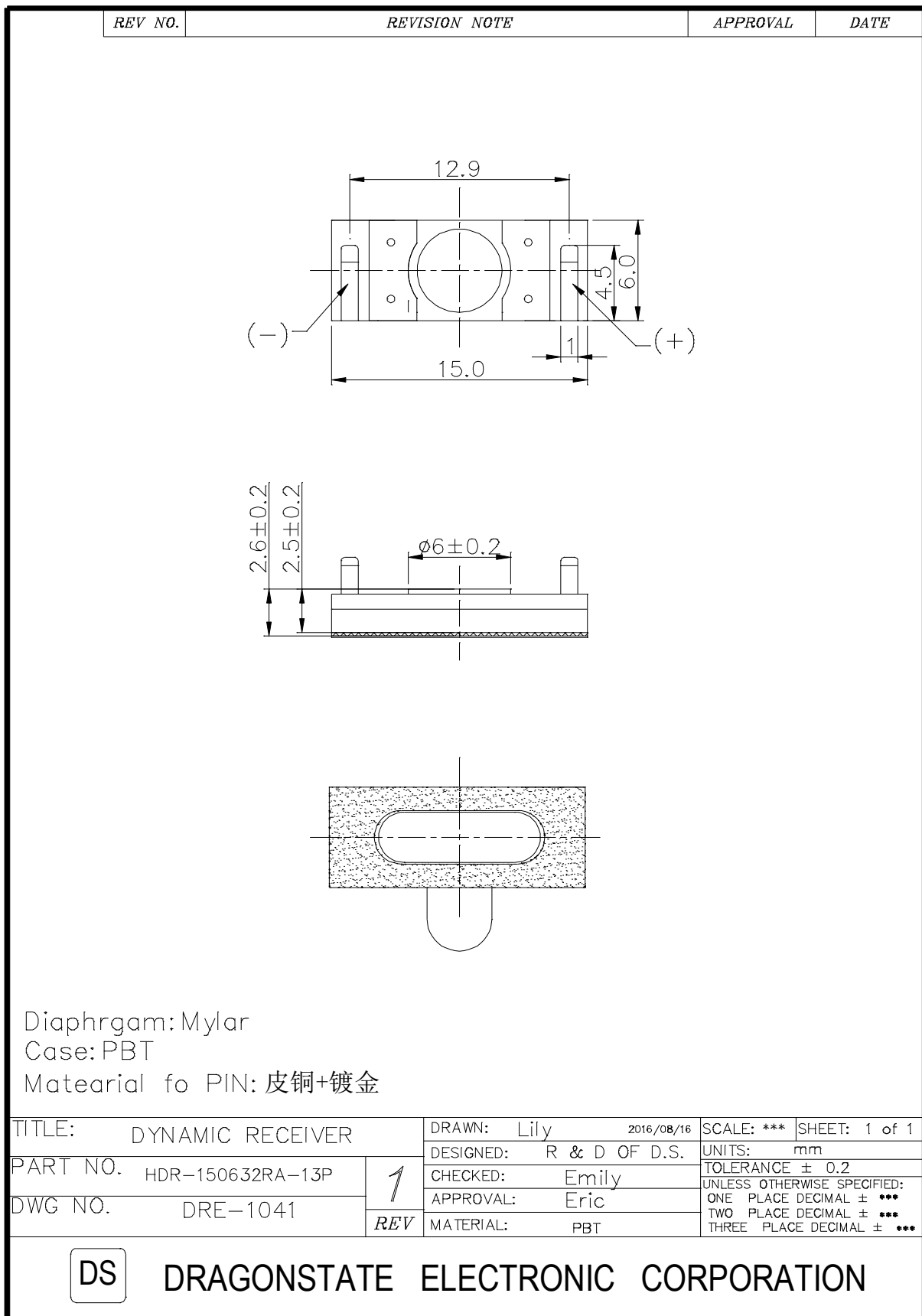
Input signal : 180mV



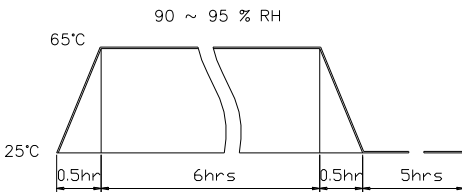
2.3 Frequency Response Curve



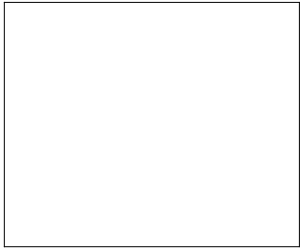
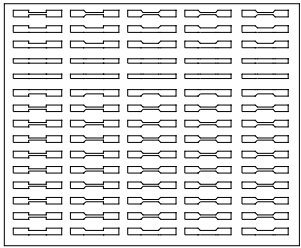
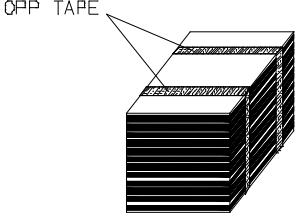
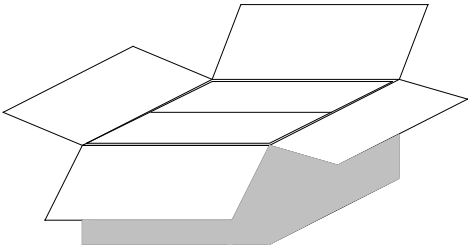
3.DIMENSION



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>  <p>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. Above the 65°C plateau, it indicates 90 ~ 95 % RH.</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 white noise is applied for 96 hours
10	Protection against liquids	Protected against 30mins of immersion under 1m pressure Product without leakage
11	Max Power test	Max Power 1 min on – 2 min off 10 cycles.

5.Packing

REV NO.	REVISION NOTE	APPROVAL	DATE
 <div style="float: right; text-align: right;"> Cover(285*235*5mm) Material: Paper </div>			
↓			
 <div style="float: right; text-align: right;"> Box(285*230*10mm) 150pcs Material: Paper+Epe </div>			
↓			
 <div style="float: right; text-align: right;"> Middle(285*230*120mm) 1500pcs(10*150pcs) Material: Paper+Epe </div>			
↓			
 <div style="float: right; text-align: right;"> Outer Box(490*360*350mm) 9000pcs(6*1500pcs) Material: Paper </div>			
单位: mm			
TITLE: packing		DRAWN: Lily 2013/12/06	
PART NO.		DESIGNED: R&D OF D.S.	
<div style="border: 1px solid black; padding: 5px; display: inline-block; font-size: 2em; margin: 10px;">1</div>		CHECKED: Emily	
		APPROVAL: Eric	
		MATERIAL: ***	
DWG NO.		SCALE: 2:1	
		SHEET: 1 of 1	
		UNITS: mm	
		TOLERANCE	
		20~11 ± 0.3	
		10~5 ± 0.2	
		<4 ± 0.1	
<div style="border: 1px solid black; padding: 5px; display: inline-block; font-size: 1.5em; margin: 10px;">DS</div> DRAGONSTATE ELECTRONIC CORPORATION			

