

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
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JUL-12-2018	JUL-12-2018	JUL-12-2018

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1. Specification

HDR-080932ZA-3P (RoHS)

	ITEMS.	SPECIFICATIONS
01	Туре	Dynamic 08 x 09mm receiver unit
02	Sensitivity (S.P.L)	120dB ±3 dB at 1kHz 0.8V
03	Impedance.	32 Ohm ±15%
	DC Resistance	28 Ohm ±15%
04	Resonance Frequency (FO)	430HZ ± 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 ±5%

2. Measuring method

2-1. Test Condition

Standard

Temperature : 15 ~ 35 $^{\circ}$ C

Relative humidity: 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

Judgement

Temperature : $20\pm3^{\circ}$ C

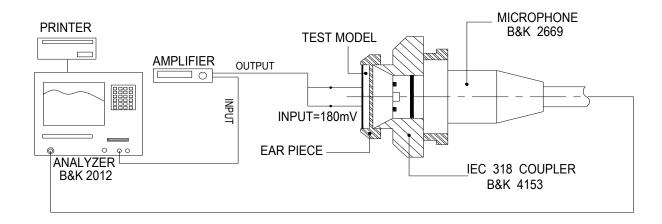
Relative humidity: 60% ~ 70%,

Atmospheric pressure: 860mbar to 1060mbar

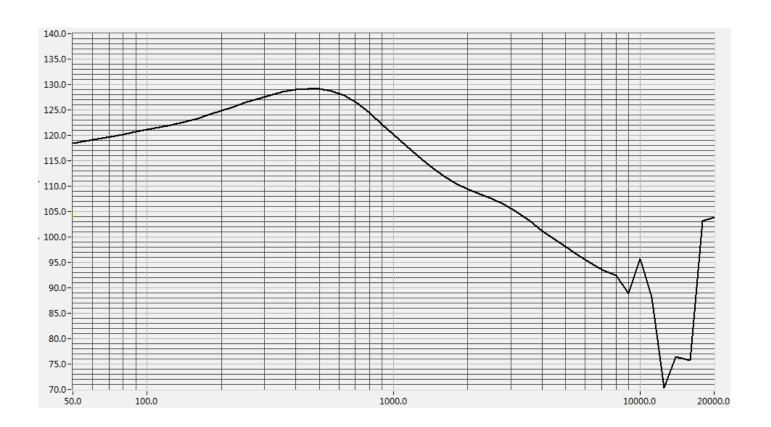


2-2. Standard Test Fixture

Input signal: 0.8V

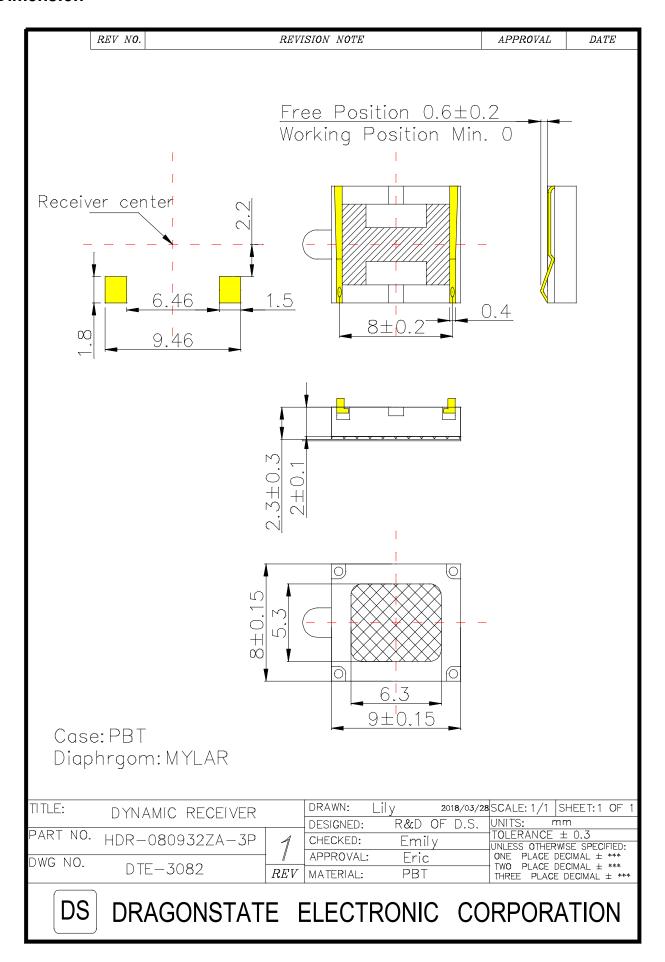


2-3 Frequency Response Curve





3.Dimension





4. Reliablity Test

	ITEMS.	SPECIFICATIONS	
01	High temp. Test	Keep 96 hours at +80°C±3°C and leave 3 hours in normal temperature and then check	
02	Low temp. Test	Keep 96 hours at -40°C±3°C and leave 3 hours in normal temperature and then check	
03	Humidity test	Keep 96 hours at + 40°C±3°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; 90 ~ 95 % RH 25'C 0.5hr 6hrs 0.5hr 5hrs	
05	Thermal Cycle Test.	Low temperature: -40°C ±3°C, temperature:+80°C ±3°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

