

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

Product	PIEZO BUZZER (SELF DRIVE)
Part No.	HZ-2240E-C(RoHS)
Customer	
Customer Part No.	

Approved By	Checked By	Made By
王台平 JAN-17-2018	曹丽萍 JAN-17-2018	LILY JAN-17-2018

常 州 华 龙 电 子 有 限 公 司**Changzhou Dragon State Electronic Co., Ltd**

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. Specifications

HZ-2240E-C (RoHS)

Items		Units	Specifications	Conditions
01	Rated Voltage	Vp-p	10	(square wave)
02	Operating Voltage	Vp-p	1~25	
03	Rated Current	mA(Max)	5	
04	Sound Output At 10cm	dBA(Min)	85	At 10Vp-p ,4KHz / 10cm
05	Resonant Frequency	Hz	4000	
06	Capacitance	pF	13000±30%	At 100Hz
07	Operating Temp.	℃	-20 ~ +70	
08	Storage Temp.	℃	-30 ~ +80	
09	Weight	g	4.5	

2. Measuring Method

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35℃

Relative humidity : 25% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

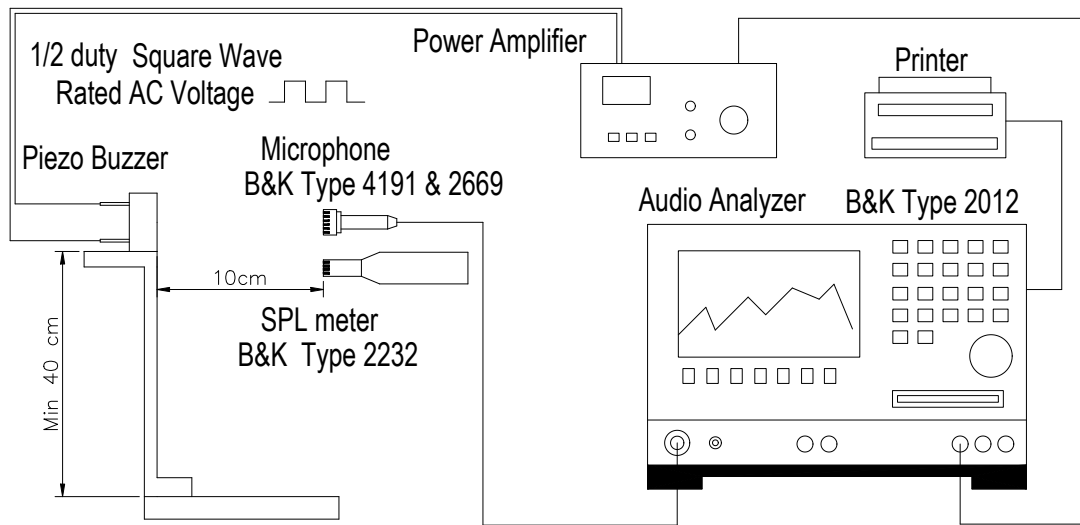
JUDGEMENT

Temperature : 20±3℃

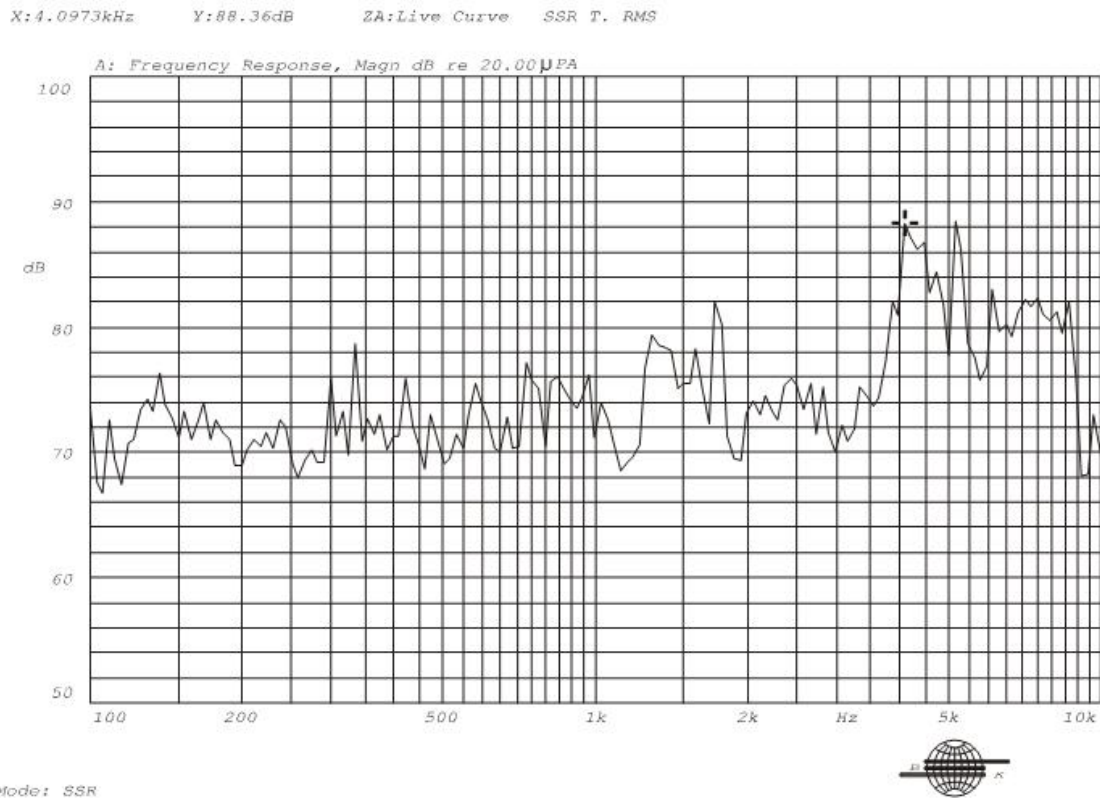
Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

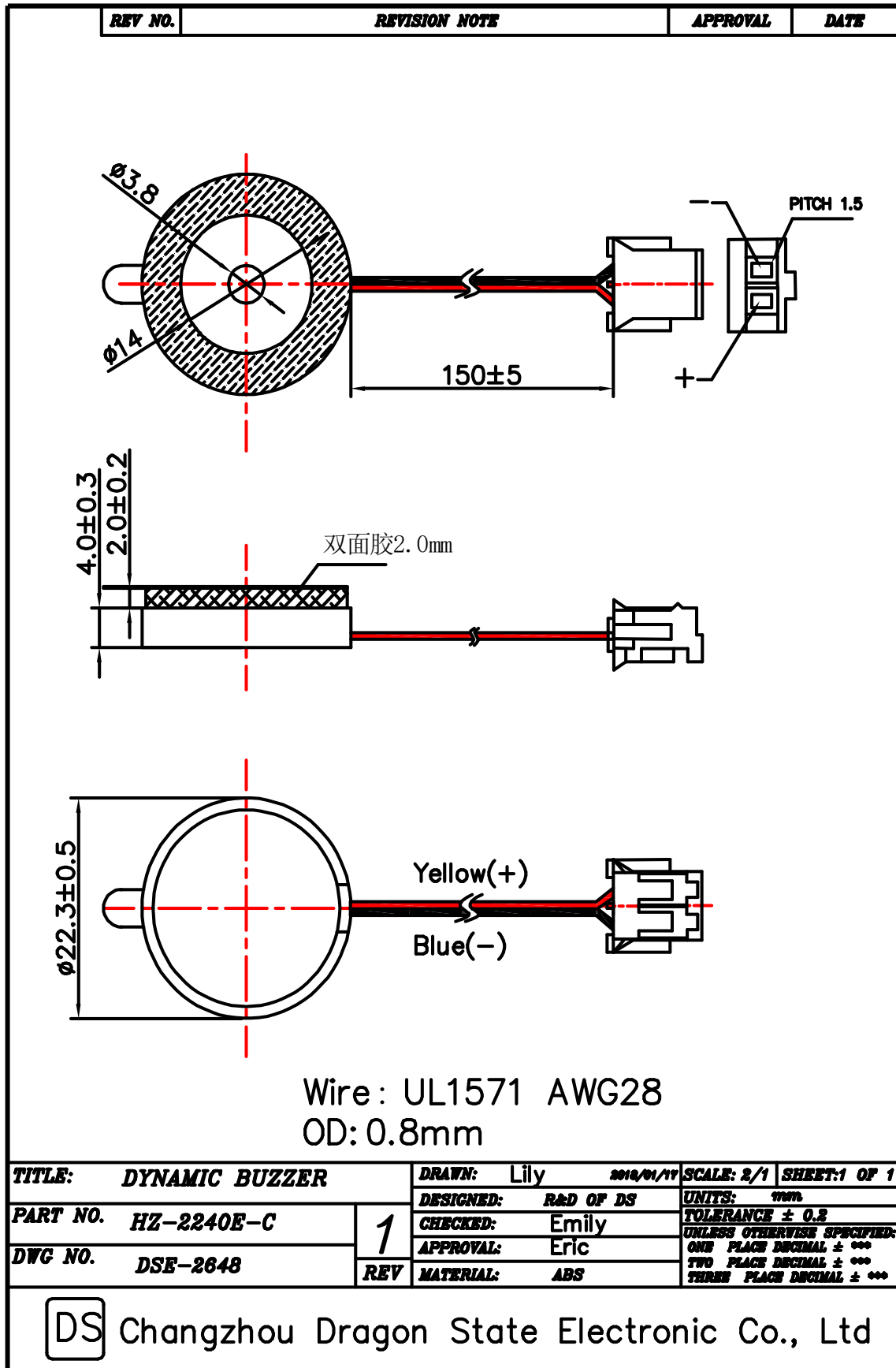
2-2. Standard Test Fixture



2-3. Frequency Response Curve



3 Dimension



4. Reliability Test

Item		Conditions	Evaluation standard
01	Low Temp. Storage Test	$-30^{\circ}\text{C} \pm 2^{\circ}\text{C}$,96Hr	After the test the part shall meet specifications without Any degradation and performance except S.P.L S.P.L shall be 62dB or more.
02	High Temp.Storage Test	$80^{\circ}\text{C} \pm 2^{\circ}\text{C}$,96Hr	
03	Temp./Humidity Storage Test	$40^{\circ}\text{C} \pm 2^{\circ}\text{C}$, RH90-95% 96Hr	
04	Thermal Shock Test	$-30^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (0.5Hr) $\rightarrow$, $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (0.25Hr) $80^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (0.5Hr) $\rightarrow$, $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (0.5Hr) 5 cycles	
05	Vibration Test	10-55Hz/2 Hr amplitude1.5mm X,Y, Z,3 directions	
06	Mechanical Shock Test	+100G,Half Sine wave, XYZ , 3 impacts per axis ,3 times.	
07	Free Drop Test	The part shall be dropped freely from a height of 75 cm X,Y, Z,3 directions 3times (total 9 times)	
08	Life Burning Test	The part shall be subjected to 500 hrs in the room temp with rated voltage applied	
09	Lead Strength Test	Pull Lead with a force of 10N,on the direction of the lead axis for 10 ± 1 sec.	