

MESSRS.

SPECIFICATION FOR APPROVAL**承 認 书**

Product	PIEZO BUZZER
Part No.	HZ-1740E-C (RoHS)
Customer Approval	

Approved By	Checked By	Made By
王台平 SEP-21-2011	曹丽萍 SEP-21-2011	LILY SEP-21-2011

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-1740E-C(RoHS)

Items		Units	Specifications	Conditions
01	Rated Voltage	Vp-p	9	(square wave)
02	Operating Voltage	Vp-p	1~30	
03	Rated Current	mA(Max)	10	9Vp-p / 4.0KHz
04	Sound Output At 10cm	dBA(Min)	80	At 9Vp-p / 4.0KHz
05	Resonant Frequency	Hz	4000±500	
06	Capacitance	pF	15000±30%	At 1000Hz
07	Waterproof Standards	IP65	IP65 waterprove class means that the product can completely prevent dust intrusion and can be flushed by water this product will function normally	
08	Operating Temp.	℃	-40 ~ +80	
09	Storage Temp.	℃	-40 ~ +85	
10	Weight	g	1.0	

2. Measuring Method

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35℃

Relative humidity : 25% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

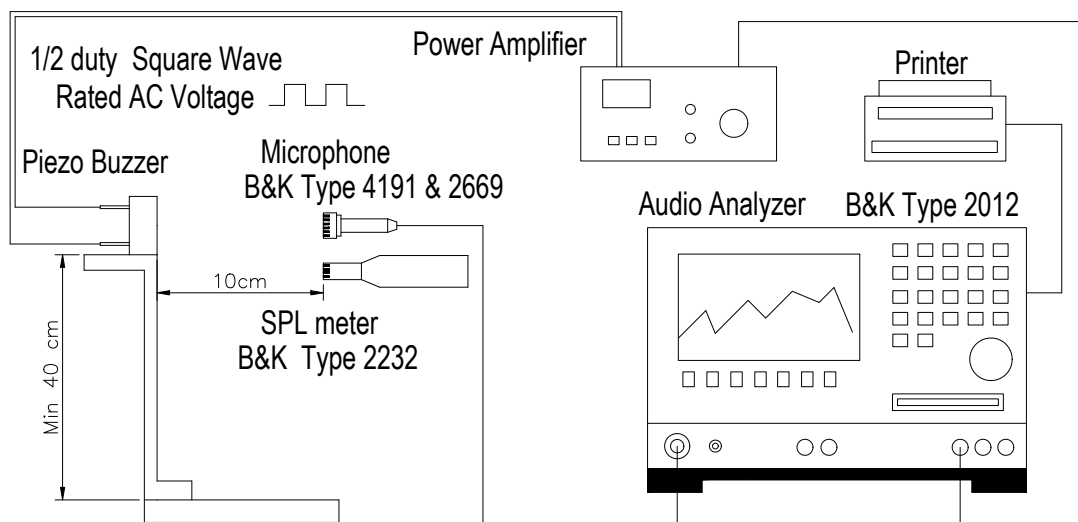
JUDGEMENT

Temperature : 20±3℃

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

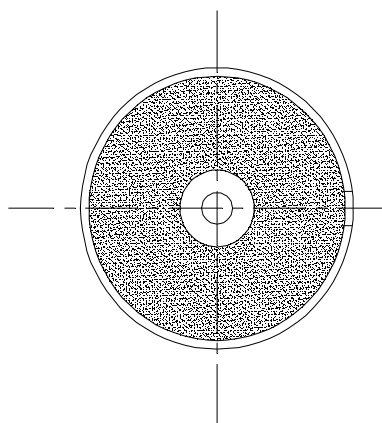
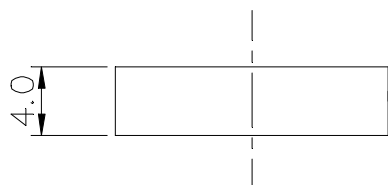
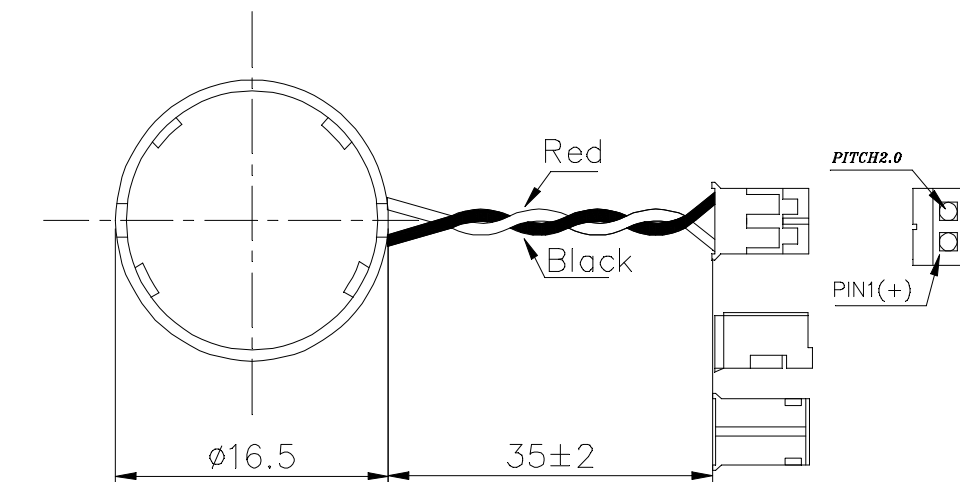
2-2. Standard Test Fixture



2-3. Frequency Response Curve

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REV NO.	REVISION NOTE	APPROVAL	DATE
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wire:UL1571AWG30
housing:CI0102S0000
terminal:CI01T011PE0

TITLE: <i>PIEZO BUZZER</i>		DRAWN: Kitty	2011/09/21	SCALE: 2:1	SHEET: 1 : 1
PART NO. <i>HZ-1740E-C</i>	1	DESIGNED: R & D OF D.S.		UNITS: mm	
DWG NO. <i>DPE-1089</i>		CHECKED: Emily		TOLERANCE ± 0.5	
		APPROVAL: Eric		UNLESS OTHERWISE SPECIFIED:	
	REV	MATERIAL: ABS		ONE PLACE DECIMAL ± ***	
				TWO PLACE DECIMAL ± ***	
				THREE PLACE DECIMAL ± ***	

Item		Conditions	Evaluation standard
01	Low Temp. Storage Test	$-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$,240Hr	After the test the part shall meet specifications without Any degradation and performance except S.P.L S.P.L shall be 77dB or more.
02	High Temp.Storage Test	$85^{\circ}\text{C} \pm 2^{\circ}\text{C}$,240Hr	
03	Temp./Humidity Storage Test	$40^{\circ}\text{C} \pm 2^{\circ}\text{C}$, RH90-95% 240Hr	
04	Thermal Shock Test	$-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (0.5Hr) $\rightarrow$, $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (0.25Hr) $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (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.	