

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

Product	PIEZO BUZZER
Part No.	HZ-1640E-W18 (RoHS)
Customer Approval	

Approved By	Checked By	Made By
王台平 FEB-23-2024	曹丽萍 FEB-23-2024	LILY FEB-23-2024

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EDITION: 1. 1



History change record

[illegible]

1. Specifications

HZ-1640E-W18 (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
08	Operating Temp.	℃	-20 ~ +60	
09	Storage Temp.	℃	-30 ~ +70	
10	Weight	g	0.8	

2. Measuring Method

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35℃

Relative humidity : 25% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

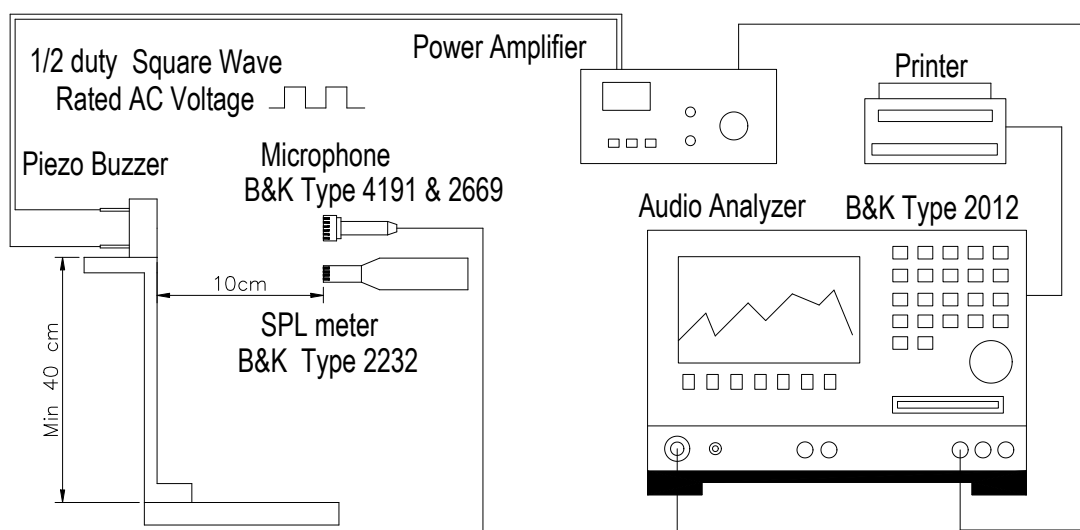
JUDGEMENT

Temperature : $20 \pm 3^{\circ}\text{C}$

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

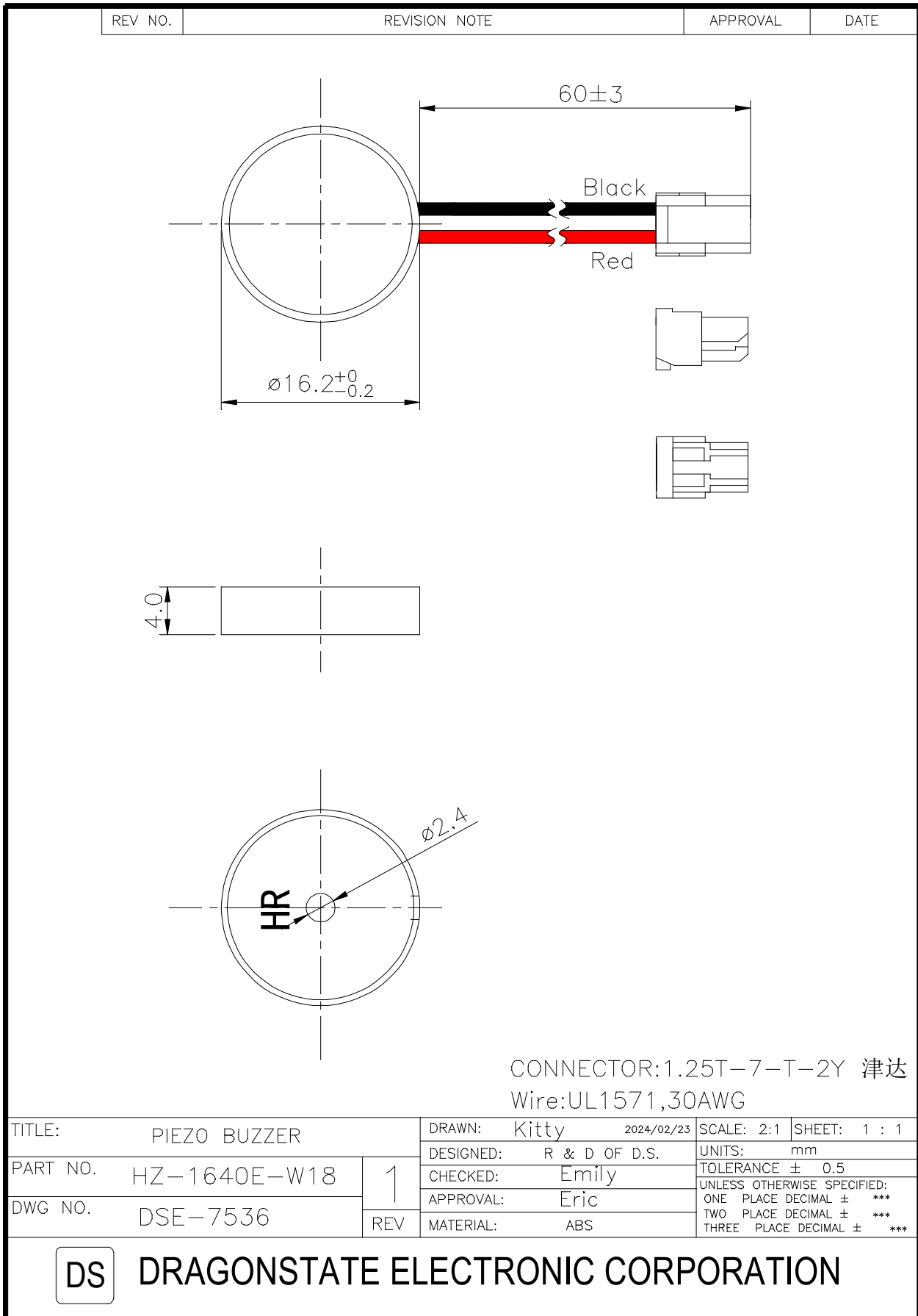
2-2. Standard Test Fixture



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4. Reliability Test

Item		Conditions	Evaluation standard
01	Low Temp. Storage Test	$-30^{\circ}\text{C} \pm 2^{\circ}\text{C}$, 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	$70^{\circ}\text{C} \pm 2^{\circ}\text{C}$, 240Hr	
03	Temp./Humidity Storage Test	$40^{\circ}\text{C} \pm 2^{\circ}\text{C}$, RH90-95% 240Hr	
04	Thermal Shock Test	$-30^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (0.5Hr) $\rightarrow$, $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (0.25Hr) $70^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (0.5Hr) $\rightarrow$, $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (0.5Hr) 5 cycles	
05	Vibration Test	10-55Hz/2 Hr amplitude 1.5mm 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.	