

MESSRS.

SPECIFICATION FOR APPROVAL**承 認 书**

Product	MAGNETIC BUZZER
Part No.	HC-903W-C1 (RoHS)
Customer Approval	3.02.0021

Approved By	Checked By	Made By
王台平 FEB-09-2022	曹丽萍 FEB-09-2022	LILY FEB-09-2022

常 州 华 龙 电 子 有 限 公 司**DRAGONSTATE ELECTRONIC CORPORATION**

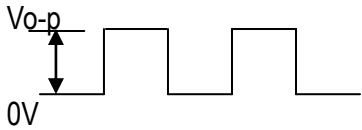
中国江苏省常州市新区电子园新四路 36 号

Tel: +86-519-85110078. 86-519-85106698, Fax: +86-519-85101081

EDITION:1.1

1. Specifications

HC-903W-C1 (RoHS)

Items		Units	Specifications	Conditions
01	Rated Voltage	Vo-p	3.0	
02	Operating Voltage	Vo-p	2~5	
03	Consumption Current	mA (Max)	Mean 70	Applying rated voltage, rated frequency Square wave, 1/2 duty subject to standard state.
			Peak 210	
04	Direct Current Resistance	Ohm	20±5	
05	Sound Output	dBA (min)	85	Distance at 10cm, applying rated voltage, rated frequency square wave, 1/2duty subject to standard state.
06	Rated Frequency	Hz	2731	
07	Operating Temp.	°C	-30 ~ +75	
08	Storage Temp.	°C	-40 ~ +85	
09	Weight	Gram	1.0	

2. Measuring Method

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 25% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

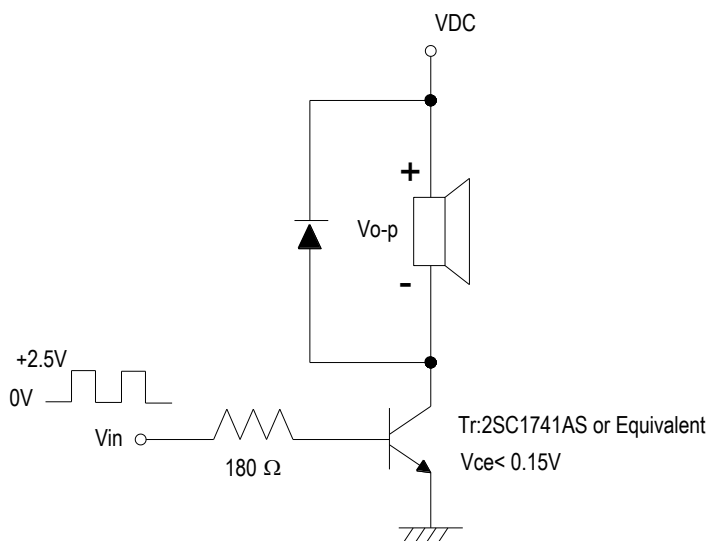
JUDGEMENT

Temperature : 20±3°C

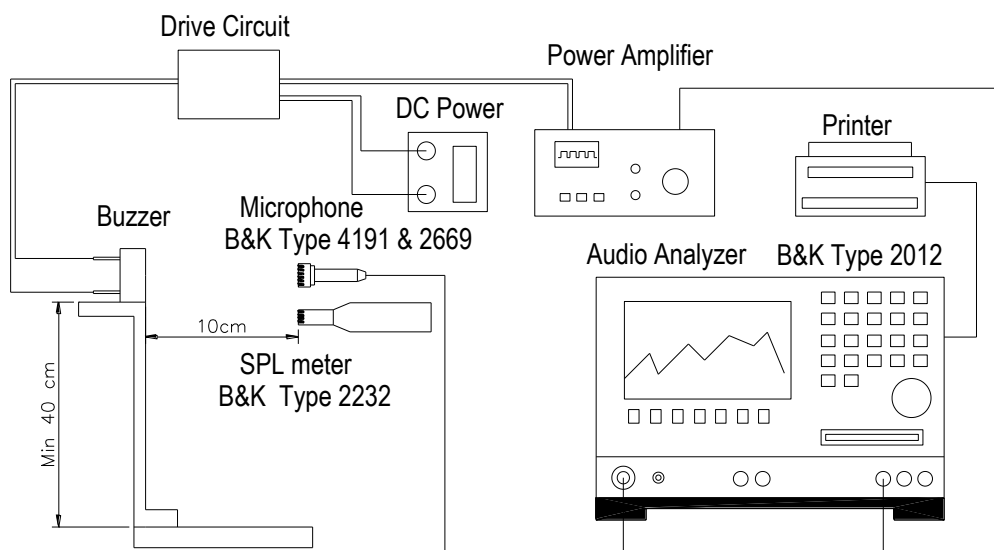
Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

2-2. Standard Drive Circuit:

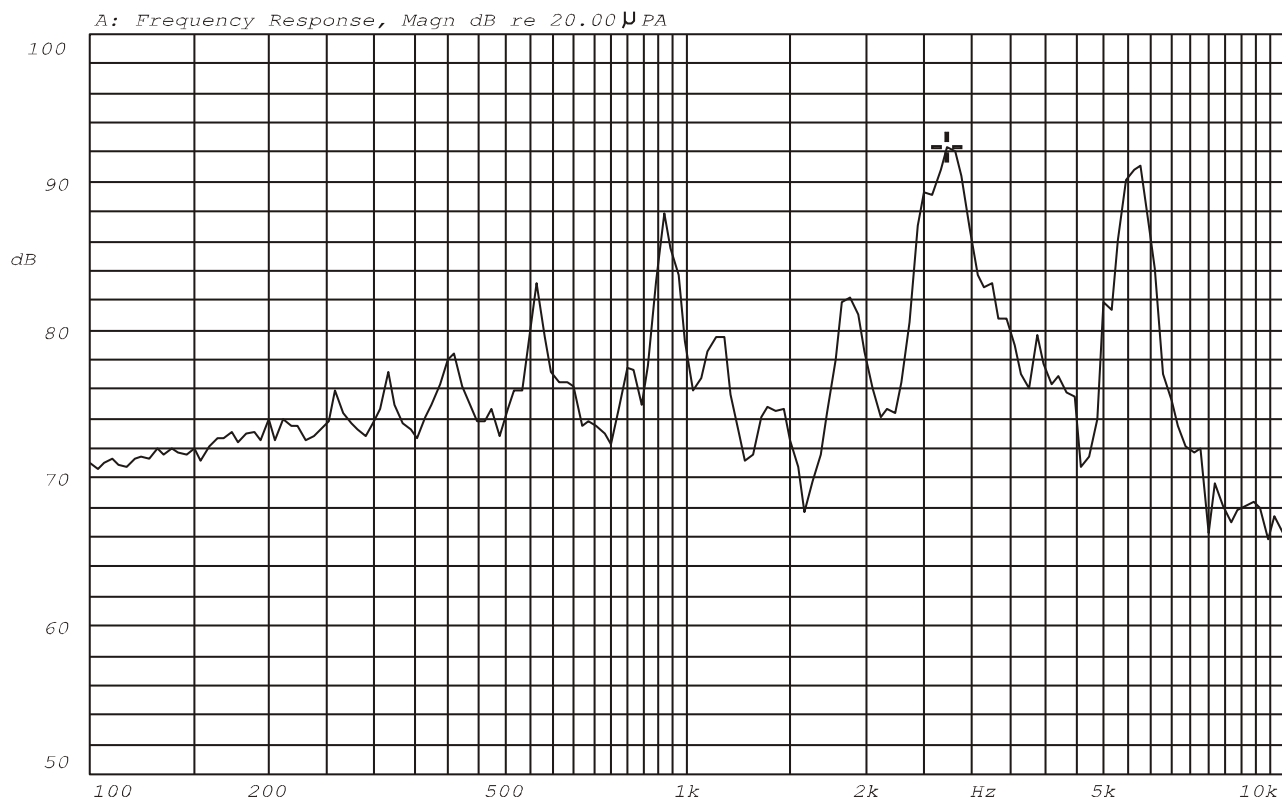


2-3. Standard Test Fixture



2-4. Frequency Response Curve

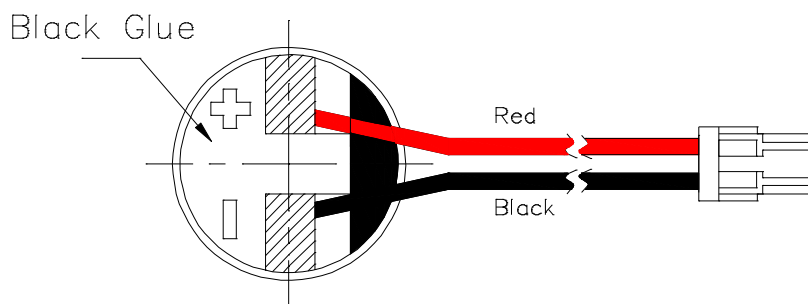
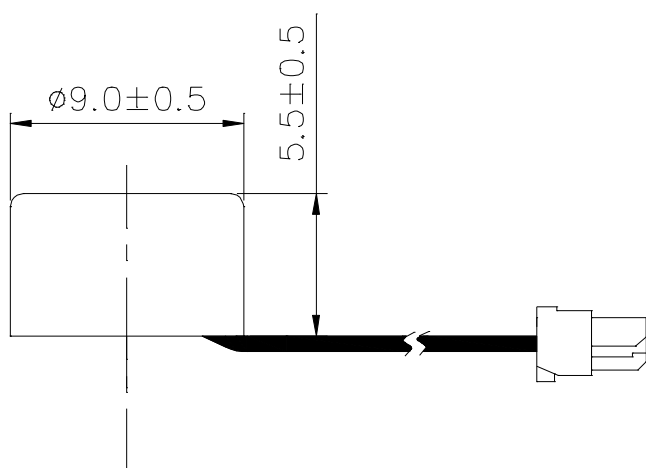
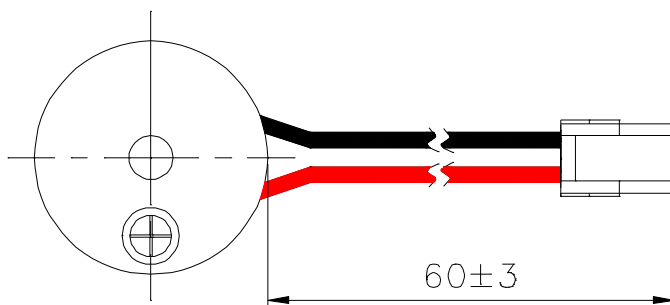
X:2.7384kHz Y:92.34dB ZA:Live Curve SSR T. RMS



Mode: SSR



REV NO.	REVISION NOTE	APPROVAL	DATE
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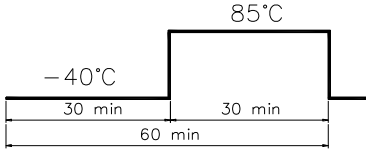
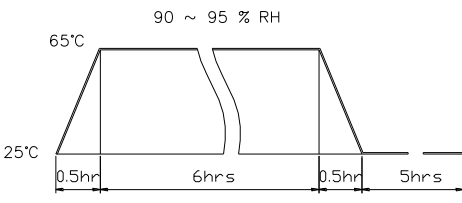
CONNECTOR: 1.25T-7-T-2Y 津达
Wire: UL1061, 28AWG

TITLE: SOUND TRANSDUCER DIMENSIONS		DRAWN: Lily	2022/02/09	SCALE: 3/1	SHEET: 1 OF 1
PART NO. HC-903W-C1	1	DESIGNED: R&D OF D.S.		UNITS: mm	
DWG NO. DTE-5051		CHECKED: Emily		TOLERANCE ± 0.5	
		APPROVAL: Eric		UNLESS OTHERWISE SPECIFIED:	
	REV	MATERIAL: NORYL		ONE PLACE DECIMAL ± ***	
				TWO PLACE DECIMAL ± ***	
				THREE PLACE DECIMAL ± ***	

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4. RELIABILITY TEST

Item		Test conditions	Evaluation standard
01	High temp.Storage life	The part shall be capable of withstanding a storage Temperature of 85℃ for 96 hours.	<p>After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L S.P.L shall be 82dB or more.</p>
02	Low temp.Storage life	The part shall be capable of withstanding a storage Temperature of -40℃ for 96 hours.	
03	Temp. cycle	<p>The part shall be subjected 10 cycles. One cycle shall consist of;</p> 	
04	Temp./Humidity cycle	<p>The part shall be subjected 10 cycles. One cycle shall be 12 hours and consist of;</p> 	
05	Operating life	<p>Rated Voltage,Frequency applied.</p> <ol style="list-style-type: none"> Ordinary temperature The part shall be subjected to 96 hours at room temperature (25 ±10℃) High temperature The part shall be subjected to 96 hours at 75℃ Low temperature The part shall be subjected to 96 hours at -30℃ 	
06	Lead Strength	Pull load on the direction of the lead axis for 10 ±1 sec.	
07	Vibration	The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute. Total peak amplitude shall be 1.52mm (9.3G). The vibration test shall consist of 2 hours per plane in each three mutually perpendicular planes for a total time of 6 hours.	

Item		Test conditions	Evaluation standard
08	Fixed drop	The part shall be mounted on standard pc board and dropped from a height of 100cm onto a concrete floor 5 times in each 6 planes.(a total of 30 times)	After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L S.P.L shall be 82dB or more.
09	Free drop	The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes (X.Y.Z). (a total of 9 times).	
10	Solder ability	Immerse fluxed soldered section of contact pin into a solder bath (Sn-3Ag-0,5Cu) for 3~5seconds,temperature at $245 \pm 5^{\circ}\text{C}$ 95% of immersed Area must show no Voids, pin holes	
11	Solder heat resistance	Soldering into solder bath : $350 \pm 5^{\circ}\text{C}$ Soaking time : 3 sec	
12	Lead strength	Pull lead with a force of 10N,on the direction of the lead axis for 10 : 10 ± 1 sec	
13	Washability	Solvent : deionized water Solvent temp. : $55 \pm 5^{\circ}\text{C}$ Soaking time : 5 ± 0.5 min.	