

MESSRS.

SPECIFICATION FOR APPROVAL
承 认 书

Product	MAGNETIC BUZZER
Part No.	HX-1003-P4 (RoHS)
Customer	
Customer Part No.	

Approved By	Checked By	Made By
王台平 OCT-08-2019	曹丽萍 OCT-08-2019	LILY OCT-08-2019

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1. Specifications

HX-1003-P4(RoHS)

Items	Units	Specifications	Conditions
01 Rated Voltage	VDC	3.0	Response Time 500 mSec
02 Operating Voltage	VDC	2~5	Volts D.C
03 Consumption Current	mA (Max)	30	Applying rated voltage
04 Direct Current Resistance	Ohm	None	
05 Sound Output	dBA (min)	85	Distance at 10cm, applying rated voltage
06 Basic Frequency	Hz	2700± 100	
07 Operating Temp.	°C	-20 ~ +70°C	
08 Storage Temp.	°C	-30 ~ +80°C	
09 Weight	Gram	0.75±0.05	

2. Measuring Method

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 25% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

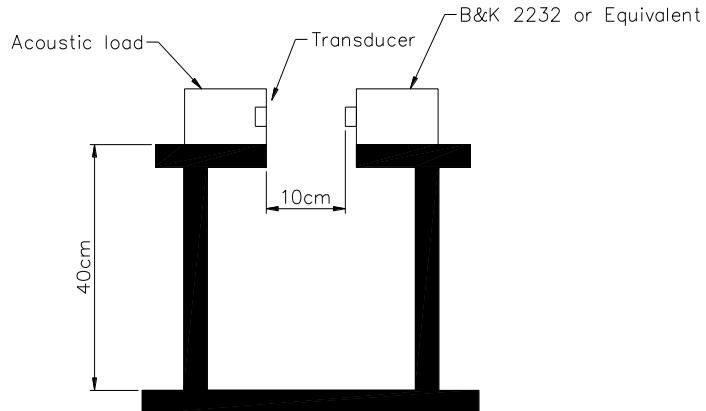
JUDGEMENT

Temperature : 20±3°C

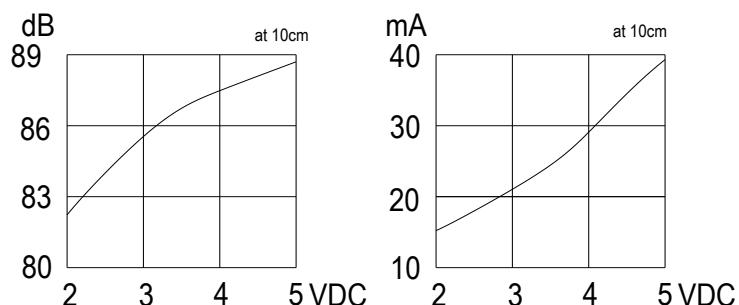
Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

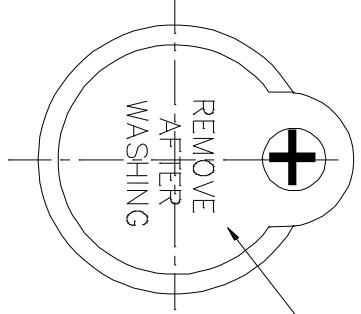
2-3. Standard Test Fixture



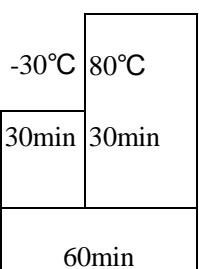
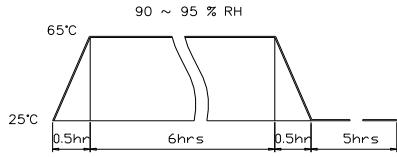
2-4. Frequency Response Curve



3. Dimension

REV NO.	REVISION NOTE	APPROVAL	DATE
 <p>REMOVE AFTER WASHING</p> <p>MASKING LABEL</p> <p>蓝帽</p>			
<p>$\phi 9.6 \pm 0.2$</p> <p>5.0 ±0.3</p> <p>3.5</p> <p>5.0</p> <p>$2 - A0.6 \pm 0.1$</p>			
<p>5 ±0.3</p> <p>Potting</p>			
<p>TITLE: SOUND TRANSDUCER DIMENSIONS</p> <p>PART NO. HX-1003-P4</p> <p>DWG NO. DTE-3764</p>		<p>DRAWN: Lily 2019/09/30</p> <p>DESIGNED: R&D OF D.S.</p> <p>CHECKED: Lily</p> <p>APPROVAL: Eric</p> <p>REV</p> <p>MATERIAL: NORYL</p>	<p>SCALE: 1/1 SHEET: 1 of 1</p> <p>UNITS: mm</p> <p>TOLERANCE ± 0.5</p> <p>UNLESS OTHERWISE SPECIFIED:</p> <p>ONE PLACE DECIMAL ± ***</p> <p>TWO PLACE DECIMAL ± ***</p> <p>THREE PLACE DECIMAL ± ***</p>
<p>DS DRAGONSTATE ELECTRONIC CORPORATION</p>			

4. Reliability Test

Item		Test conditions	Evaluation standard
01	High temp.Storage life	The part shall be capable of withstanding a storage Temperature of 80°C for 96 hours.	
02	Low temp.Storage life	The part shall be capable of withstanding a storage Temperature of -30°C for 96 hours.	
03	Temp. cycle	<p>The part shall be subjected 10 cycles. One cycle shall consist of;</p> 	<p>After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L</p> <p>S.P.L shall be 72dB or more.</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 applied.</p> <ol style="list-style-type: none"> 1. Ordinary temperature The part shall be subjected to 1000 hours at room temperature ($25 \pm 10^\circ\text{C}$) 1. High temperature The part shall be subjected to 500 hours at 85°C 2. Low temperature The part shall be subjected to 500 hours at -40°C 	
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 152cm onto a concrete floor 5 times in each 6 planes.(a total of 30 times)	
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).	After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L
10	Solder heat resistance	Soldering into solderbath : $350\pm5^{\circ}\text{C}$ Soaking time : 3.5 ± 0.5 sec	S.P.L shall be 72dB or more.
11	Solder ability	Soldering : $250\pm5^{\circ}\text{C}$ / 5 Sec. $350\pm5^{\circ}\text{C}$ / 1.5 Sec Soldering t into solderbath : $250\pm5^{\circ}\text{C}$ Soaking time : 2 ± 0.5 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. : $55\pm5^{\circ}\text{C}$ Soaking time : 5 ± 0.5 min.	

5. Packing

REV NO. REVISION NOTE APPROVAL DATE

Cover(240*160*5mm)
Material: Paper

Box(240*160*29mm)
100pcs
Material: Paper+Epe

OPP TAPE

Middle(240*160*250mm)
1000pcs(10*100pcs)
Material: Paper+Epe

Outer Box(515*420*280mm)
5000pcs(5*1000pcs)
Material: Paper

单位: mm

TITLE: packing		DRAWN: Lily 2016/07/12	SCALE: 2:1	SHEET: 1 of 1
PART NO.		DESIGNED: R&D QF D.S.	UNITS: mm	
DWG NO.	1	CHECKED: Emily	TOLERANCE	
		APPROVAL: Eric	20~11	± 0.3
	REV	MATERIAL: ***	10~5	± 0.2
			<4	± 0.1

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