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# SPECIFICATION FOR APPROVAL

Product	MAGNETIC BUZZER
Part No.	AV-9003-CX
Customer Approval	

Approved By	Checked By	Made By

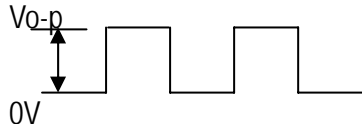


**A & B Components**

**<http://www.speaker-tw.com>**

# 1. Specifications

AV-9003-CX

Items		Units	Specifications		Conditions
01	Rated Voltage	Vo-p	3.0		
02	Operating Voltage	Vo-p	2~4		
03	Comsumption Current	mA (Max)	Mean	100	Applying rated voltage, rated frequency Square wave,1/2 duty subject to standard state.
			Peak	240	
04	Direct Current Resistance	Ohm	15±3		
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.	℃	-20 ~ +85		
08	Storage Temp.	℃	-40 ~ +90		
09	Weight	Gram	0.7		

# 2. Measuring Method

## 2-1. Test Condition

STANDARD

Temperature : 15 ~ 35℃

Relative humidity : 25% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

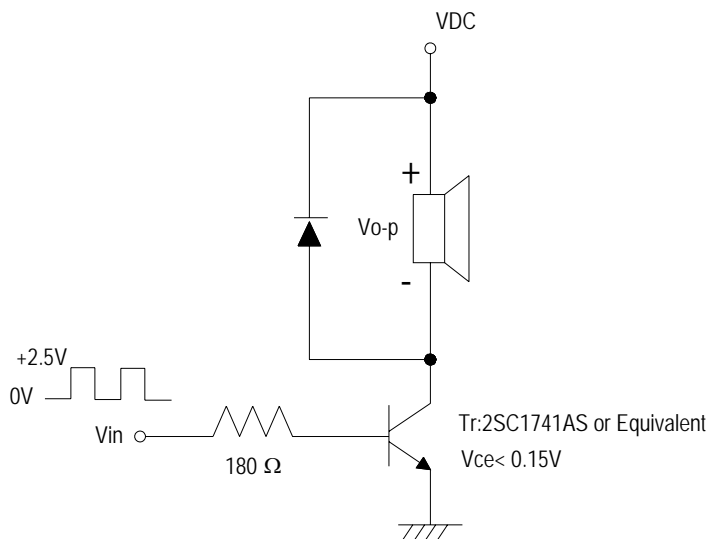
JUDGEMENT

Temperature : 20±3℃

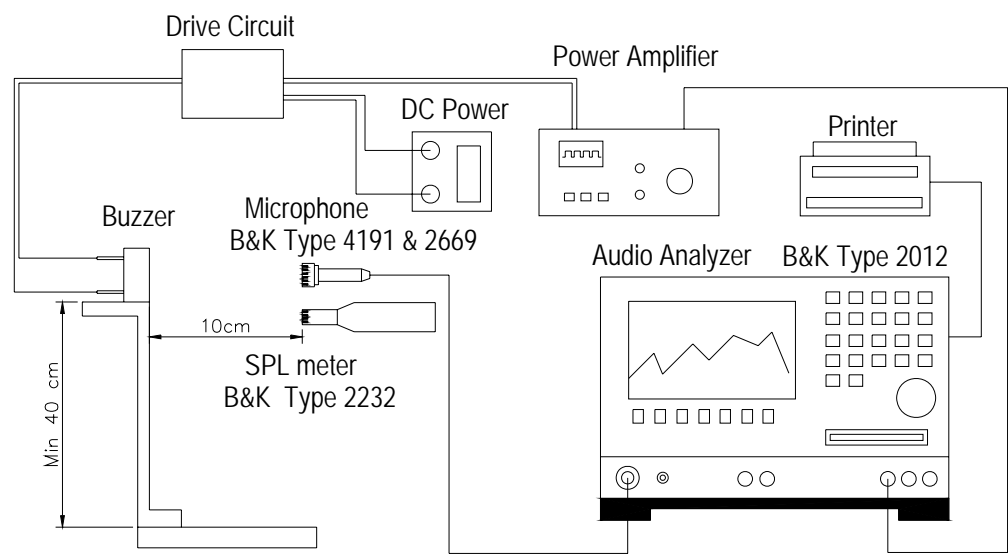
Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

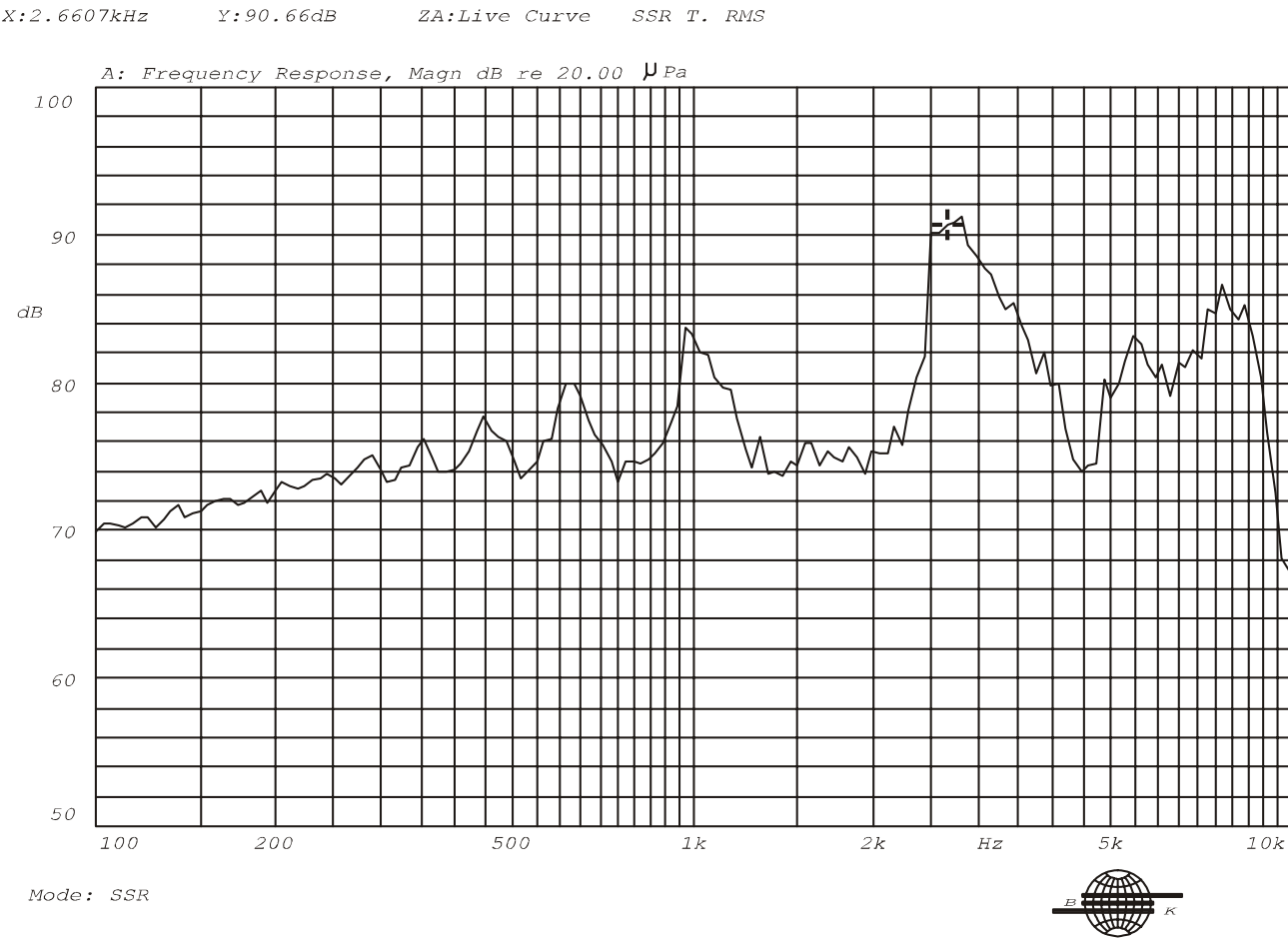
## 2-2. Standard Drive Circuit:



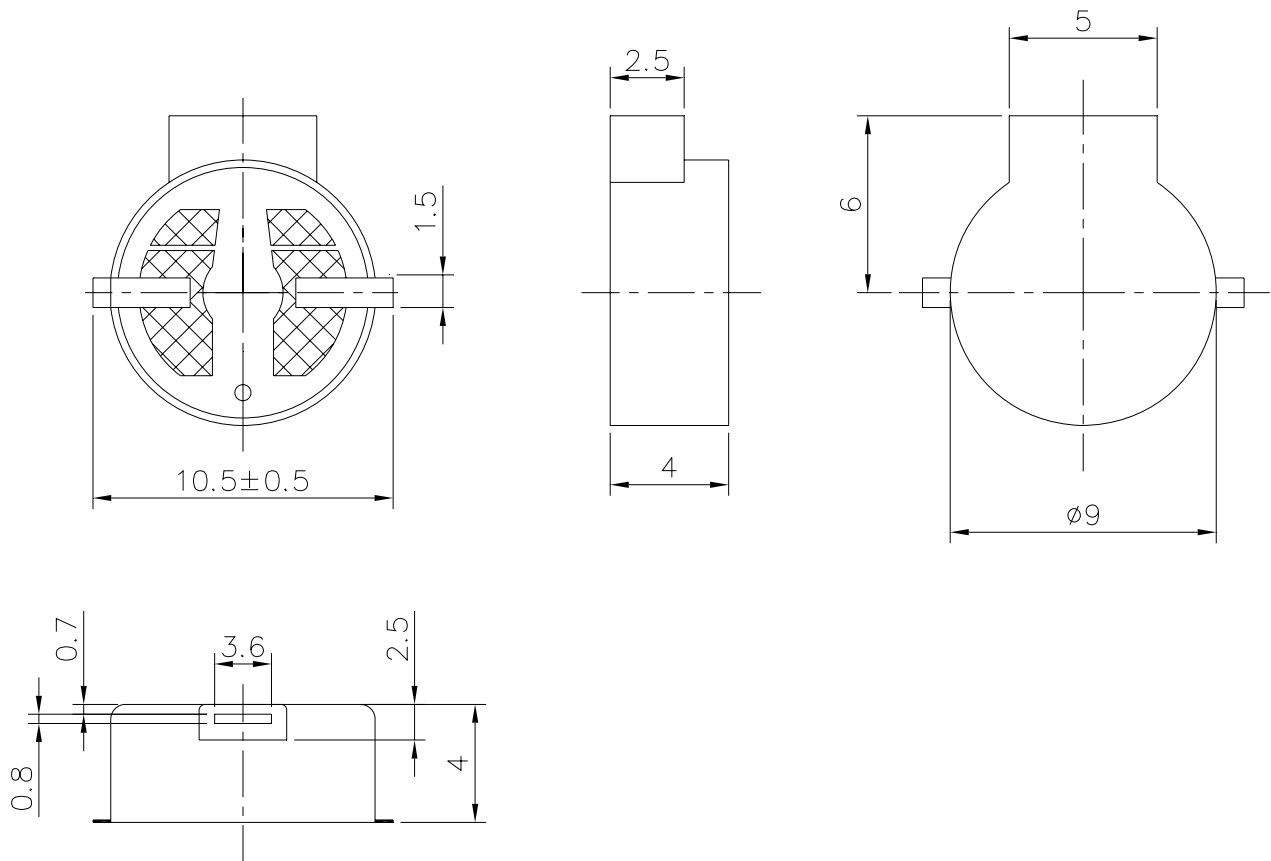
2-3. Standard Test Fixture



2-4. Frequency Response Curve



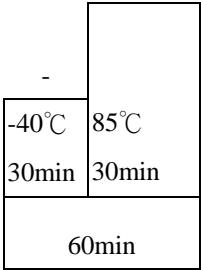
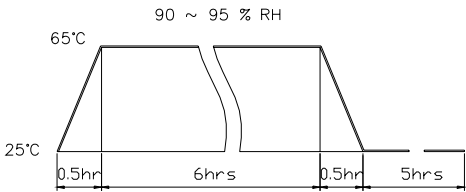
REV NO.	REVISION NOTE	APPROVAL	DATE
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TITLE: <i>SOUND TRANSDUCER</i>		DRAWN: <i>Richard</i> 2008/02/23	SCALE: 4:1	SHEET: 1 of 1
PART NO. <i>AV-9003-CX</i>	1	DESIGNED: <i>R&amp;D DEP.</i>	UNITS: <i>mm</i>	
DWG NO. <i>AEV-08022301</i>		CHECKED:	TOLERANCE $\pm 0.3$	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED:	
	REV	MATERIAL: <i>LCP</i>	ONE PLACE DECIMAL $\pm$ ***	
			TWO PLACE DECIMAL $\pm$ ***	
			THREE PLACE DECIMAL $\pm$ ***	

*A & B Components*

## RELIABILITY TEST

Item		Test conditions	Evaluation standard
01	High temp.Storage life	The part shall be capable of withstanding a storage Temperature of 85°C 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 77dB or more.</p>
02	Low temp.Storage life	The part shall be capable of withstanding a storage Temperature of -40°C 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"> <li>Ordinary temperature The part shall be subjected to 1000 hours at room temperature (25 ±10°C)</li> <li>High temperature The part shall be subjected to 500 hours at 75°C</li> <li>Low temperature The part shall be subjected to 500 hours at -30°C</li> </ol>	
06	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.	
07	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)	

Item		Test conditions	Evaluation standard
08	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	Lead strength	Pull lead with a force of 10N,on the direction of the lead axis for 10 :10±1 sec	
11	Washability	Solvent : deionized water Solvent temp. : 55±5℃ Soaking time : 5±0.5 min.	

SOLDER ABILITY

Temperature profile for reflowable Buzzer .

