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# SPECIFICATION FOR APPROVAL

Product	MAGNETIC BUZZER
Part No.	AV-9004-UP2
Customer Approval	

Approved By	Checked By	Made By



**A & B Components**

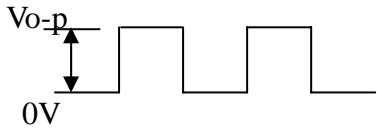
<http://www.speaker-tw.com>

# AV-9004-UP2

## FEATURES

Compact : rich sound magnetic buzzer.

Applications : Mobile phone , PDA , pager etc.

Items		Units	Specifications	Conditions
01	Rated Voltage	Vo-p	3.6	
02	Operating Voltage	Vo-p	2 ~ 4	
03	Consumption Current	mA (max)	110	Standard State, Standard Drive Circuit. Rated Voltage, Rated Frequency Square Wave 1 / 2 Duty Distance at 10 cm free air
04	Sound Pressure Label	dB (min)	85	
05	Resonant Frequency	Hz	2630	
06	Coil Resistance	$\Omega$	$11 \pm 3$	At Basic State
07	Operating Temp.	$^{\circ}\text{C}$	-30 ~ +75	
08	Storage Temp.	$^{\circ}\text{C}$	-40 ~ +85	
09	Weight	Gram	0.6	

## Test Condition

STANDARD

Temperature : 15 ~ 35 $^{\circ}\text{C}$

Relative humidity : 25% ~ 85%,

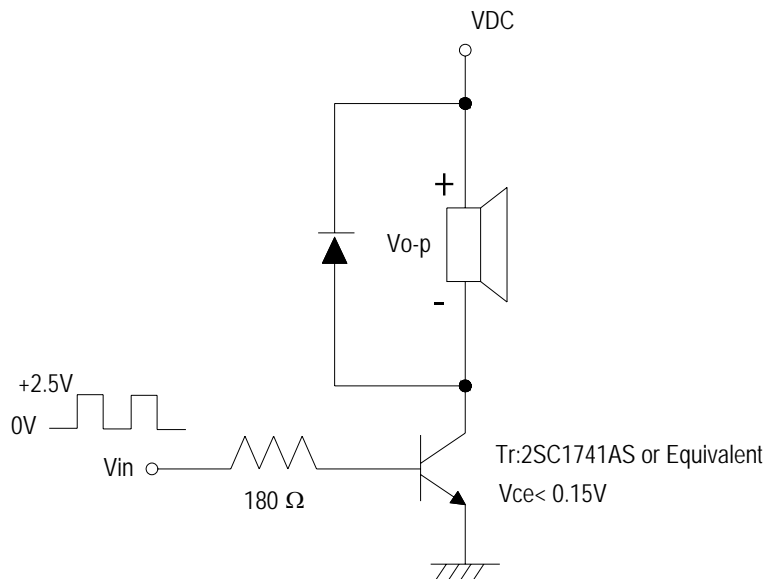
Atmospheric pressure : 860mbar to 1060mbar.

JUDGEMENT

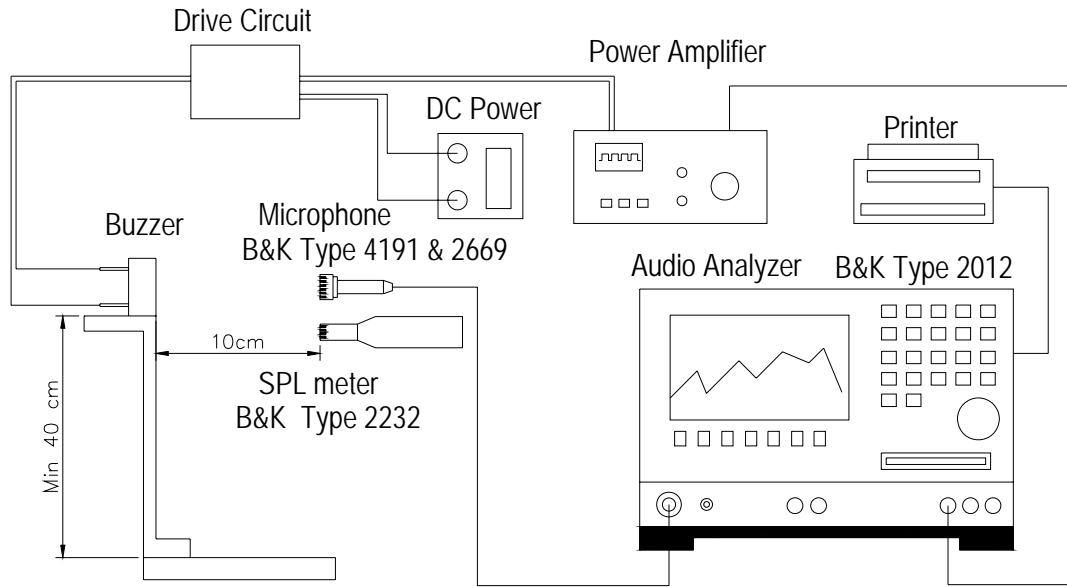
Temperature : 20 $\pm$ 3 $^{\circ}\text{C}$

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

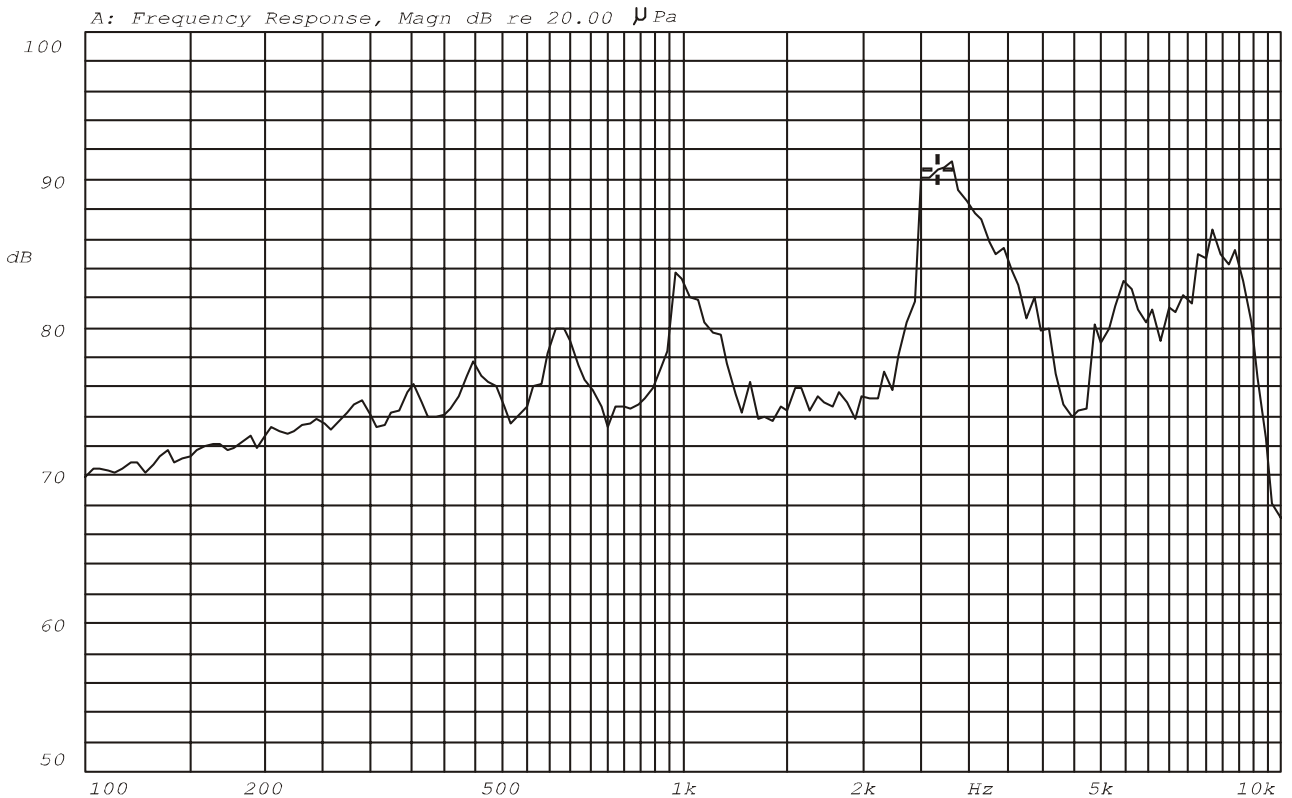


# Standard Test Fixture



# Frequency Response Curve

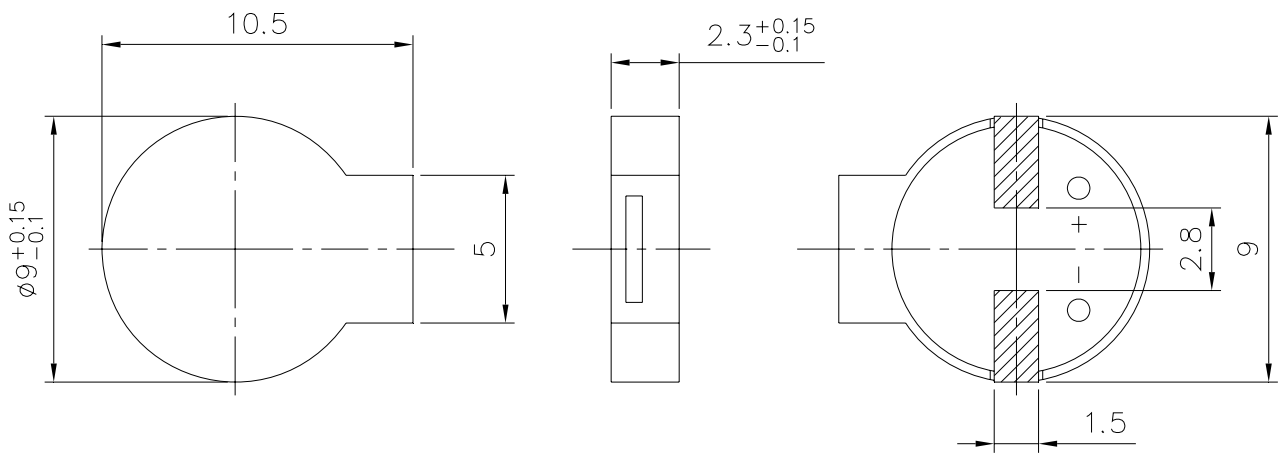
X:2.6607kHz Y:90.66dB ZA:Live Curve SSR T. RMS



Mode: SSR



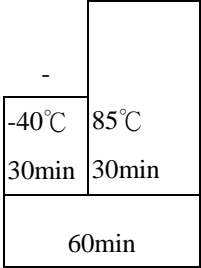
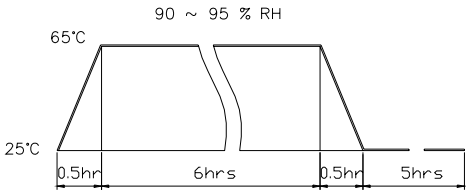
REV NO.	REVISION NOTE	APPROVAL	DATE
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TITLE: SMD BUZZER		DRAWN: Richard 2006/04/26	SCALE: 4:1	SHEET: 1 OF 1
PART NO. AV-9004-UP2		DESIGNED: R&D DEP.	UNITS: mm	
DWG NO. DTE-1016	1 REV	CHECKED:	TOLERANCE ± 0.2	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL ± *** TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***	
		MATERIAL: PPS		

*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.	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.
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</p> 	
05 Operating life	<p>Rated Voltage,Frequency applied.</p> <ol style="list-style-type: none"> <li>1. Ordinary temperature The part shall be subjected to 1000 hours at room temperature (25 ±10°C)</li> <li>1. High temperature The part shall be subjected to 500 hours at 75°C</li> <li>2. 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°C Soaking time : 5±0.5 min.	

## SOLDER ABILITY

Temperature profile for reflowable Buzzer .

