

# *MESSRS.*

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## SPECIFICATION FOR APPROVAL

## 承 认 书

Product	MAGNETIC BUZZER
Part No.	AV-9004-UP2-LF(RoHS)
Customer Approval	

Approved By	Checked By	Made By



常 州 立 翔 电 子 有 限 公 司

ADVANCED ACOUSTIC TECHNOLOGY CORP.



ISO 9001 Certified

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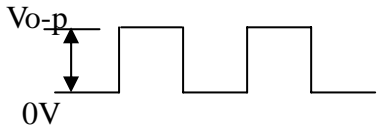
EDITION:1.1

# AV-9004-UP2-LF

## 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%,

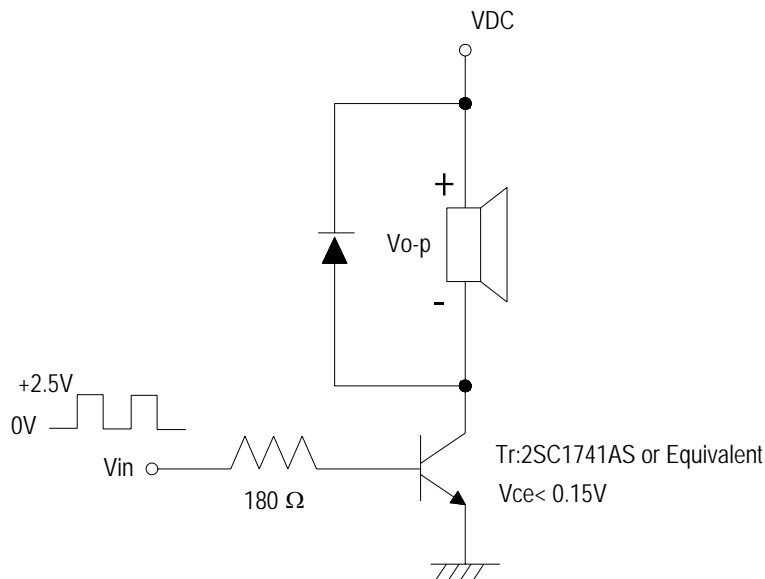
Atmospheric pressure : 860mbar to 1060mbar.

JUDGEMENT

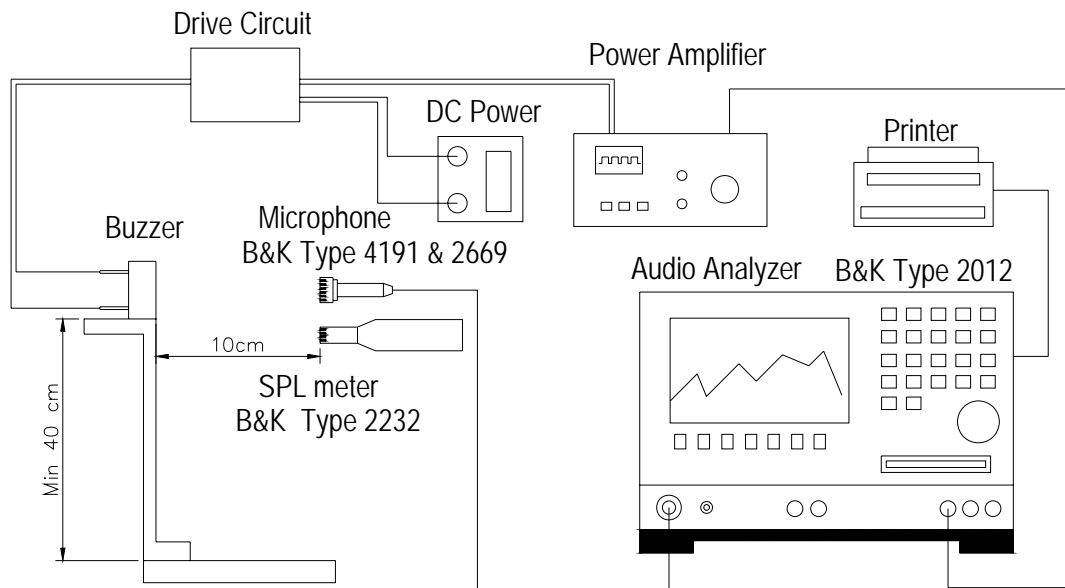
Temperature : 20 $\pm$ 3 $^{\circ}\text{C}$

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar



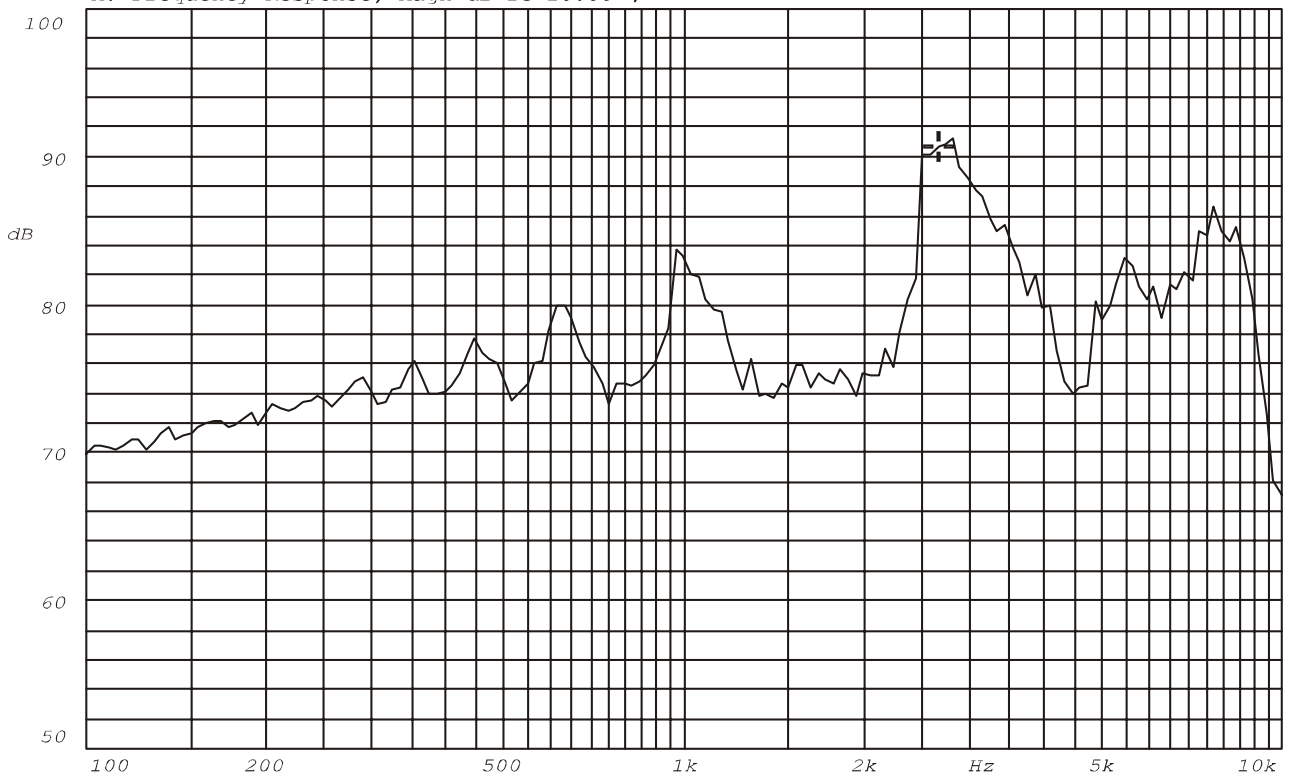
# Standard Test Fixture



# Frequency Response Curve

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

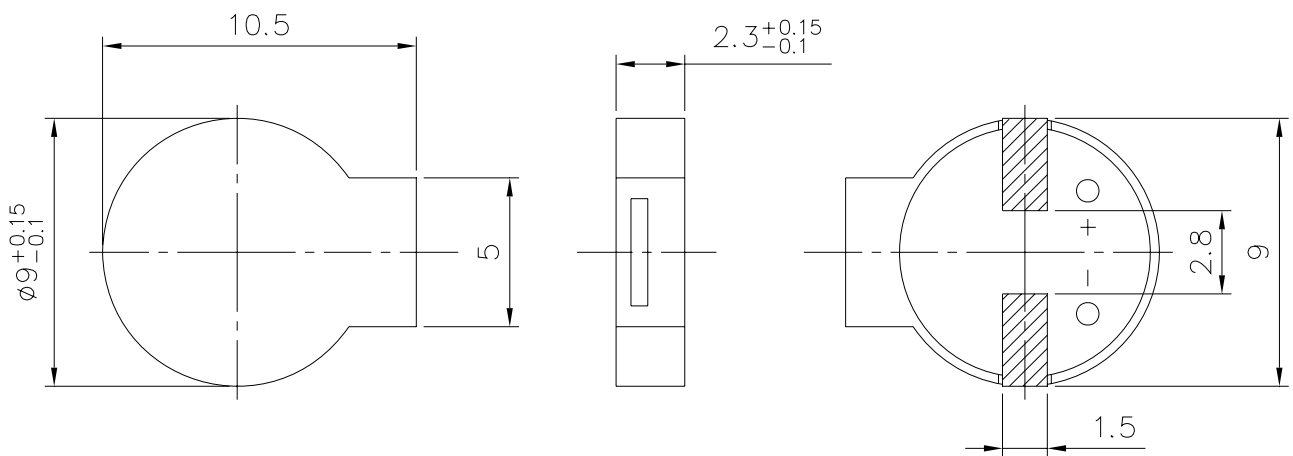
A: Frequency Response, Magn dB re 20.00  $\mu$ Pa



Mode: SSR



REV NO.	REVISION NOTE	APPROVAL	DATE
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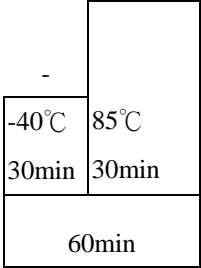
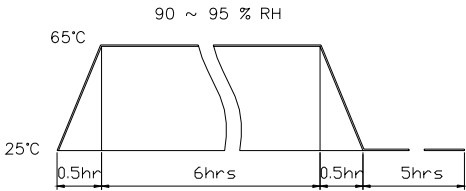


TITLE: SMD BUZZER		DRAWN: <i>Kelly</i> 2006/04/26	SCALE: 4:1	SHEET: 1 OF 1
PART NO. AV-9004-UP2-LF		DESIGNED: R&D OF AAT	UNITS: mm	
DWG NO. DTE-1016		CHECKED:	TOLERANCE $\pm 0.2$	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED:	
REV	1	MATERIAL: PPS	ONE PLACE DECIMAL $\pm$ ***	
			TWO PLACE DECIMAL $\pm$ ***	
			THREE PLACE DECIMAL $\pm$ ***	



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# 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</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°C Soaking time : 5±0.5 min.	

## SOLDER ABILITY

Temperature profile for reflowable Buzzer .

