

MESSRS.

SPECIFICATION FOR APPROVAL

承 認 書

Product	MAGNETIC BUZZER
Part No.	AC-703R-P-LF (RoHS)
Customer Approval	

Approved By	Checked By	Made By
工程 部 王台平 NOV-16-2006	工程 部 劉民祥 NOV-16-2006	工程 部 許俊程 NOV-16-2006



ADVANCED ACOUSTIC TECHNOLOGY CORP.

苙 翔 科 技 股 份 有 限 公 司



ISO 9001 Certified

2F, No.207, Sec. 6, Chung Shan N. Rd., Taipei, Taiwan, R.O.C.

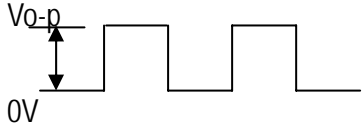
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1. Specifications

AC-703R-P

Items		Units	Specifications	Conditions
01	Rated Voltage	Vo-p	3.0	
02	Operating Voltage	Vo-p	2 ~ 4	
03	Consumption Current	mA (Max)	Mean 100.	Applying rated voltage, rated frequency Square wave, 1/2 duty subject to standard state.
			Peak 300	
04	Direct Current Resistance	Ohm	8±1	
05	Sound Output	dB(A) (min)	70	Distance at 10cm, applying rated voltage, rated frequency square wave, 1/2 duty subject to standard state.
06	Rated Frequency	Hz	3100	
07	Operating Temp.	°C	-20 ~ +70	
08	Storage Temp.	°C	-30 ~ +80	
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.

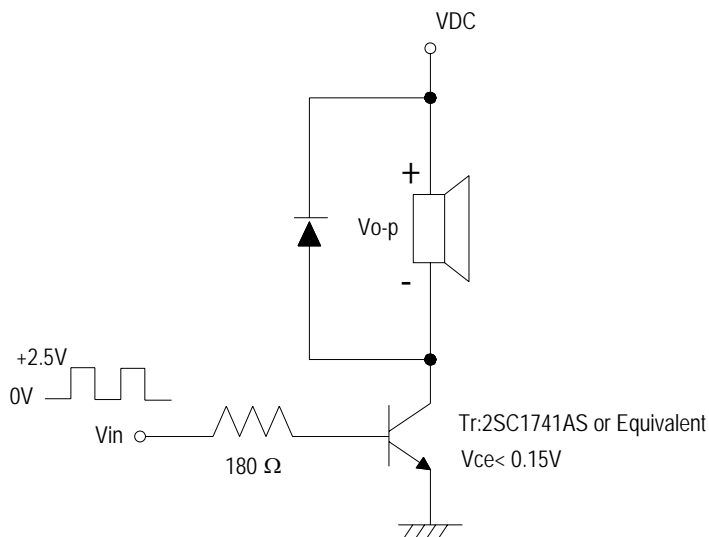
JUDGEMENT

Temperature : 20±3°C

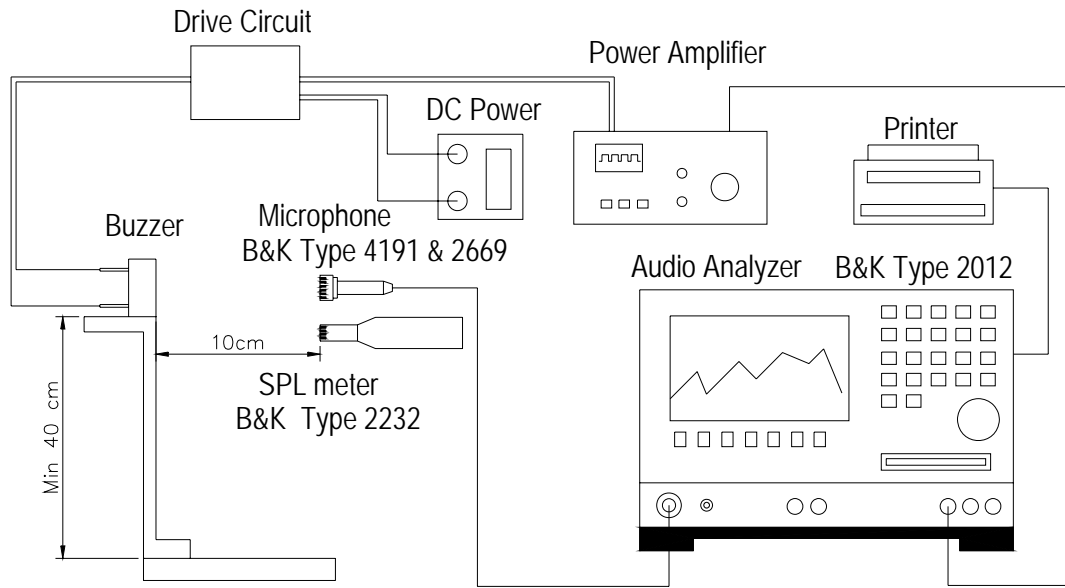
Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

2-2. Standard Drive Circuit:



2-3. Standard Test Fixture



2-4. Frequency Response Curve

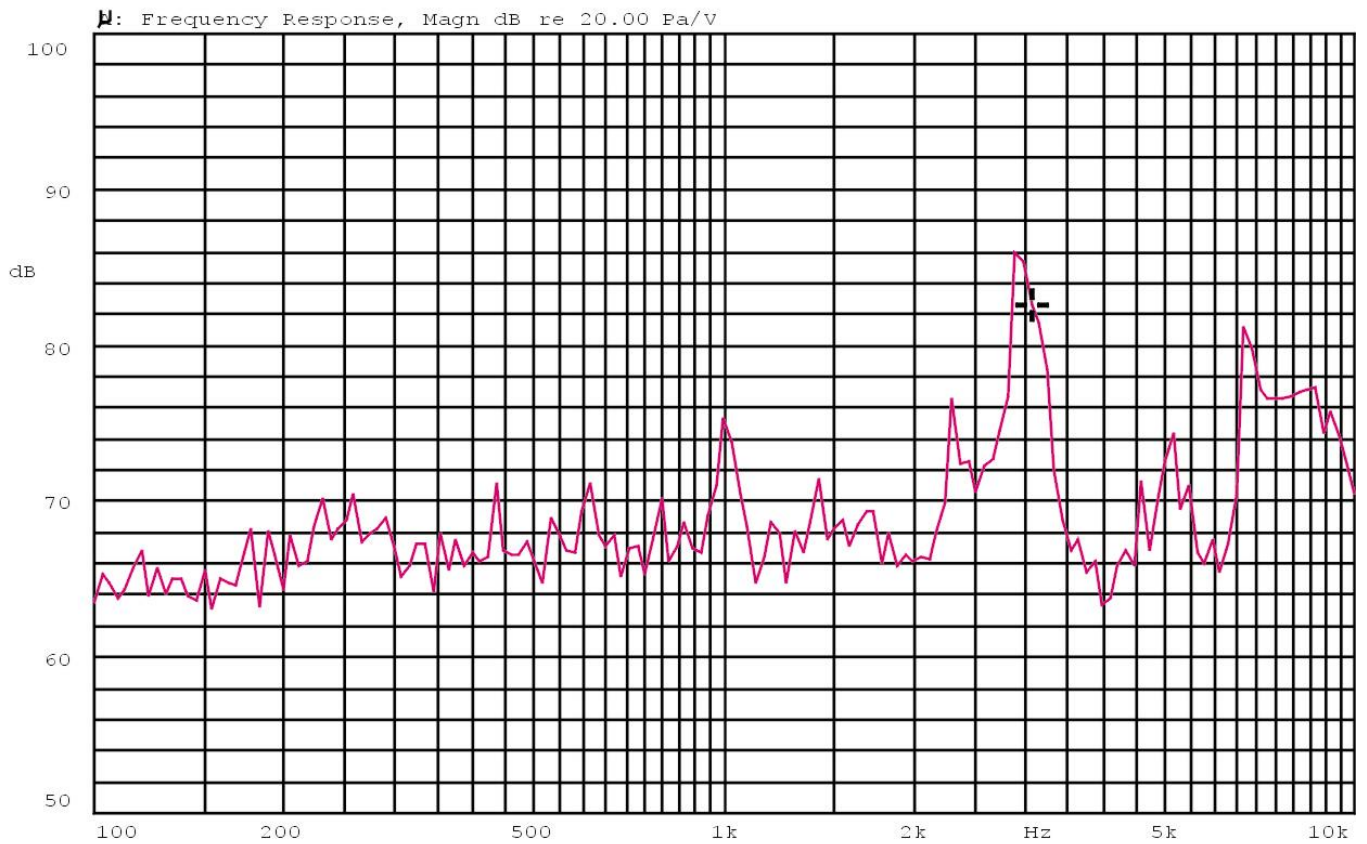
AC-703R-P

X:3.0726kHz

Y:82.53dB

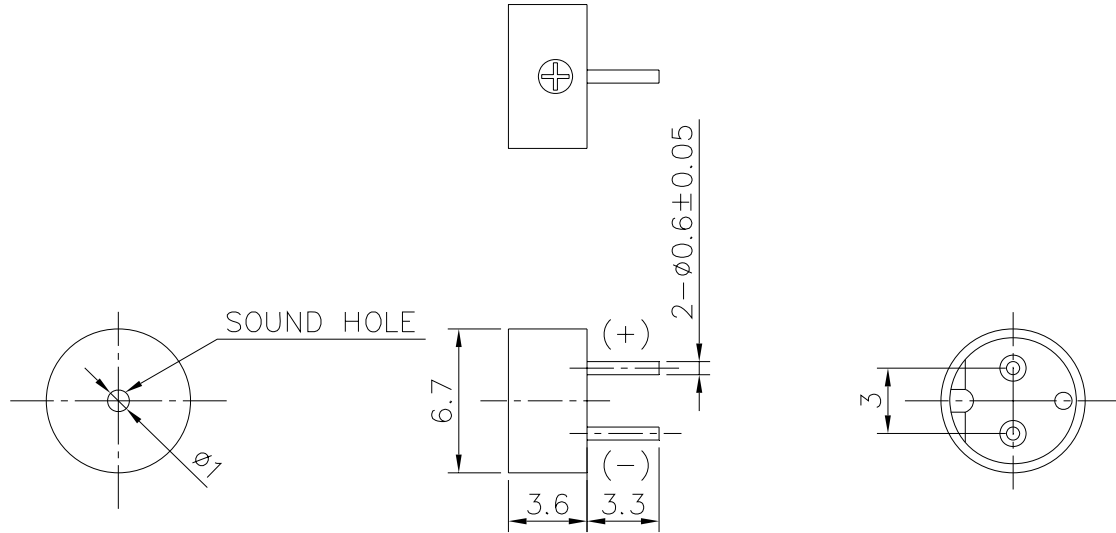
ZA:Live Curve

SSR T. RMS



Mode: SSR





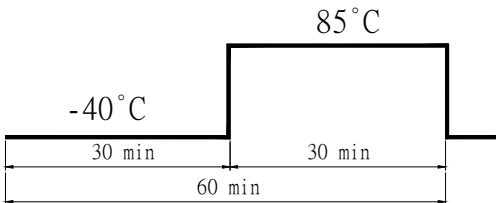
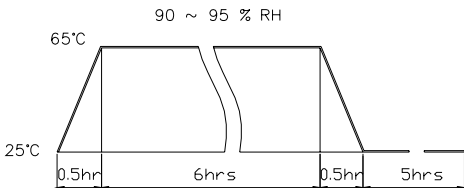
Wave Solder and Wash NOT Allowed.

TITLE: SOUND TRANSDUCER		DRAWN: JOKEN 11/16/2004	SCALE: 3:1	SHEET: 1 of 1
PART NO. AC-703R-P-LF	1	DESIGNED: R&D OF AAT	UNITS: mm	
DWG NO. DTE-2060		CHECKED:	TOLERANCE ± 0.2	
	REV	APPROVAL:	UNLESS OTHERWISE SPECIFIED:	
		MATERIAL: PPO	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°C for 96 hours.		
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> 	<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 74dB 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,Frequency applied.</p> <ol style="list-style-type: none"> 1. Ordinary temperature The part shall be subjected to 1000 hours at room temperature (25 ±10°C) 3. High temperature The part shall be subjected to 500 hours at 75°C 2. Low temperature The part shall be subjected to 500 hours at -30°C 		
06 Vibration	<p>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.</p>		

Item		Test conditions	Evaluation standard
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)	<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 74dB or more.</p>
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).	
09	Solder heat resistance	Soldering into solderbath : $350\pm 5^{\circ}\text{C}$ Soaking time : 3.5 sec	
10	Solder ability	Soldering : $260\pm 5^{\circ}\text{C}$ / 5 Sec. $355\pm 5^{\circ}\text{C}$ / 1.5 Sec Soldering t into solderbath : $260\pm 5^{\circ}\text{C}$ / 2 Sec	
11	Lead strength	Pull lead with a force of 10N,on the direction of the lead axis for 10 : 10 ± 1 sec	
12	Washability	Solvent : deionized water Solvent temp. : $55\pm 5^{\circ}\text{C}$ Soaking time : 5 ± 0.5 min.	