

MESSRS.

SPECIFICATION FOR APPROVAL

承 認 書

Product	MAGNETIC BUZZER
Part No.	AC-905G-PD-LF (RoHS)
Customer Approval	

Approved By	Checked By	Made By
工程 部 王台平 OCT-27-2005	工程 部 劉民祥 OCT-27-2005	工程 部 許俊程 OCT-27-2005



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

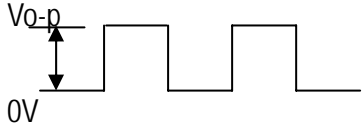
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1. Specifications

AC-905G-PD-LF

Items		Units	Specifications	Conditions
01	Rated Voltage	Vo-p	5.0	
02	Operating Voltage	Vo-p	4.0 ~ 6.0	
03	Consumption Current	mA (Max)	Mean 60	Applying rated voltage, rated frequency Square wave, 1/2 duty subject to standard state.
			Peak 180	
04	Direct Current Resistance	Ohm	40±4	
05	Sound Output	dBa (min)	85	Distance at 10cm, applying rated voltage, rated frequency square wave, 1/2 duty subject to standard state.
06	Rated Frequency	Hz	2731	
07	Operating Temp.	°C	-30 ~ +75	
08	Storage Temp.	°C	-40 ~ +85	
09	Weight	Gram	1	

2. Measuring Method

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 25% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

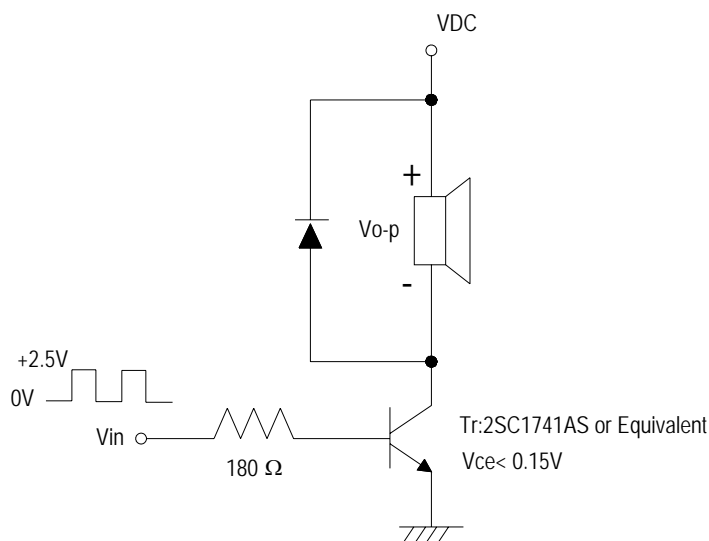
JUDGEMENT

Temperature : 20±3°C

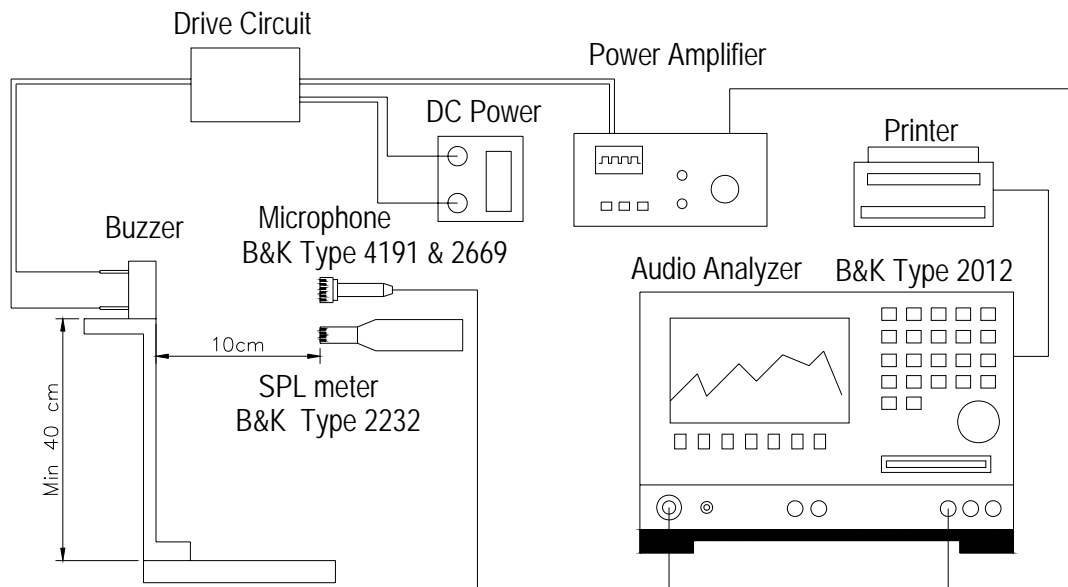
Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

2-2. Standard Drive Circuit:

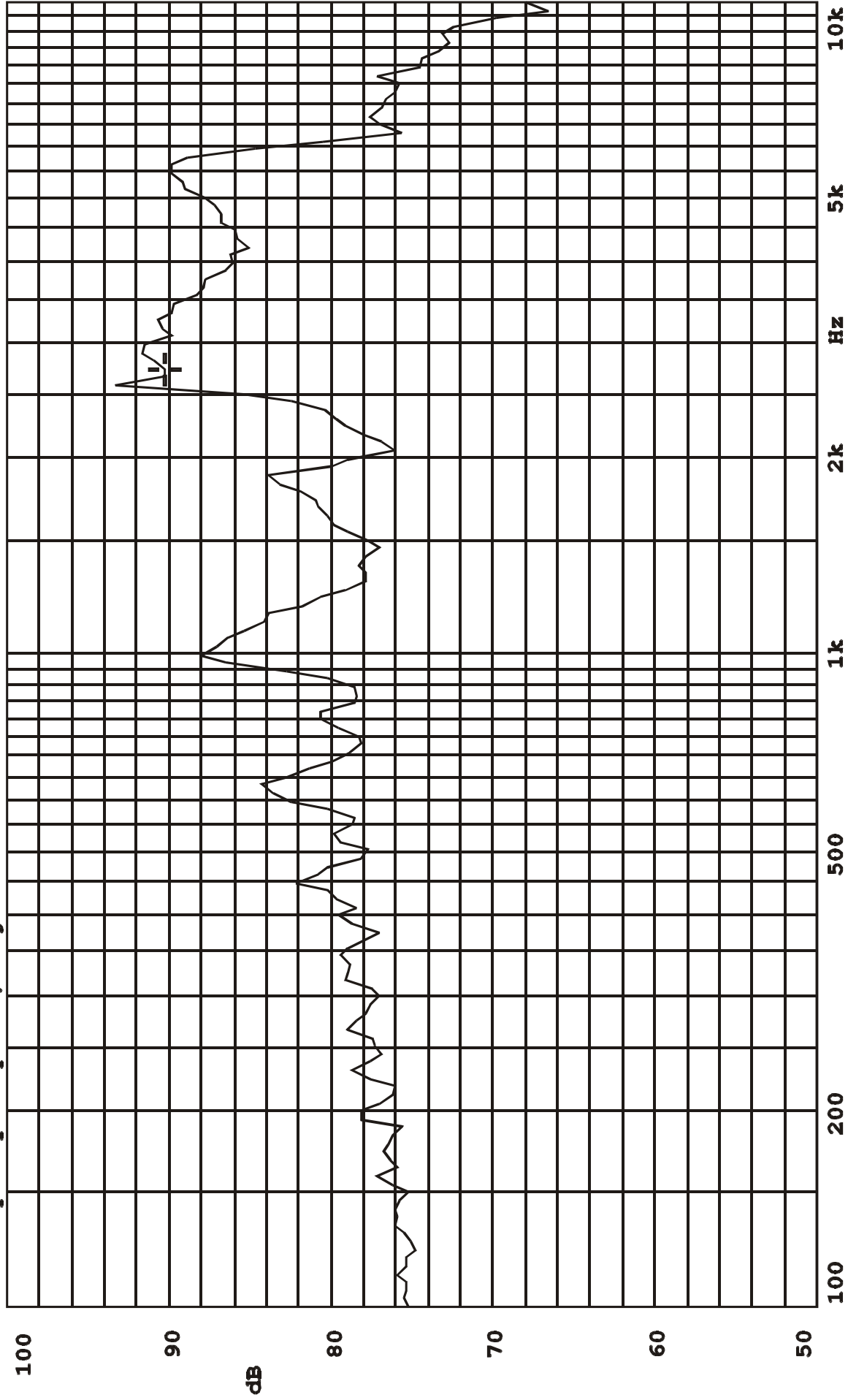


2-3. Standard Test Fixture



2-4. Frequency Response Curve

A: Frequency Response, Magn dB re 20.00 μ PA

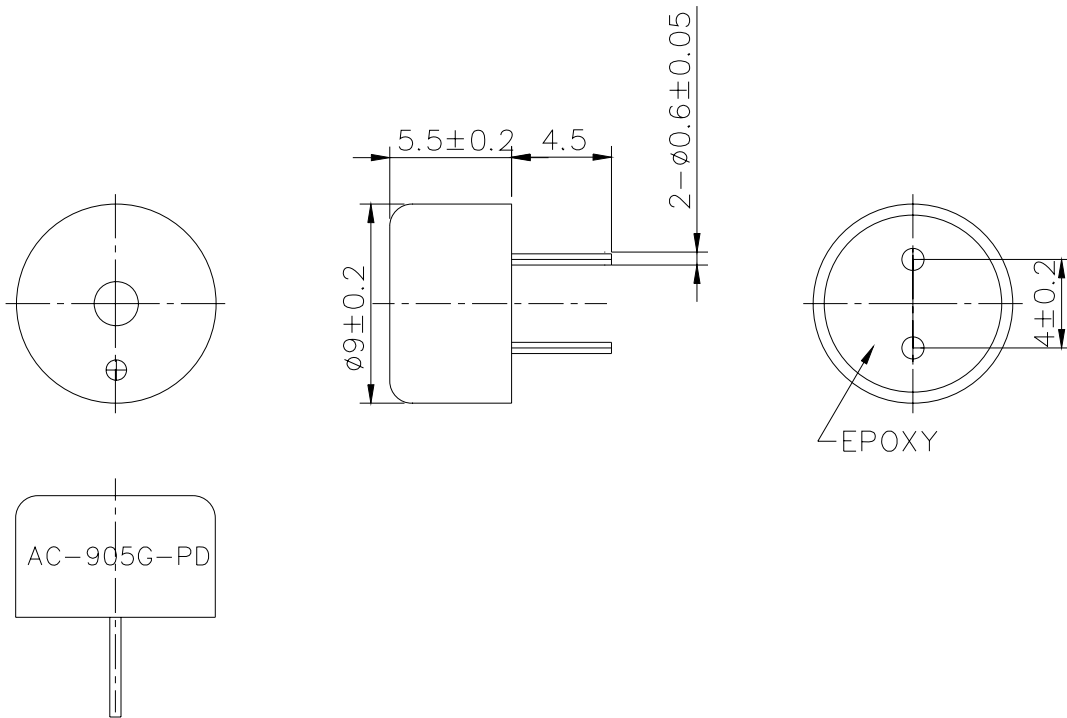


REV NO.

REVISION NOTE

APPROVAL

DATE

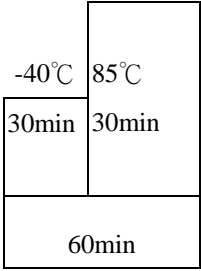
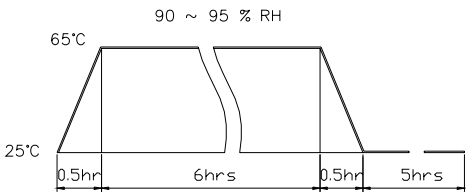


TITLE: SOUND TRANSDUCER		DRAWN: joan 11/26/2007	SCALE: 3:1	SHEET: 1 of 1
PART NO. AC-905G-PD		DESIGNED: R&D OF AAT	UNITS: mm	
DWG NO. DTT-2009		CHECKED:	TOLERANCE ± 0.5	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL \pm *** TWO PLACE DECIMAL \pm *** THREE PLACE DECIMAL \pm ***	
REV 1		MATERIAL: NORYL		



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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.	<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>
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"> Ordinary temperature The part shall be subjected to 1000 hours at room temperature (25 ±10°C) High temperature The part shall be subjected to 500 hours at 85°C 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)	<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>
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).	
10	Solder heat resistance	Soldering into solderbath : $350\pm 5^{\circ}\text{C}$ Soaking time : 3.5 ± 0.5 sec	
11	Solder ability	Hand Soldering : $350\pm 5^{\circ}\text{C}$ / 2 Sec. Solderbath : $260\pm 5^{\circ}\text{C}$ / 2 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. : $55\pm 5^{\circ}\text{C}$ Soaking time : 5 ± 0.5 min.	