

MESSRS.

SPECIFICATION FOR APPROVAL

承 認 書

Product	ELECTRO MAGNETIC BUZZER
Part No.	AS-1204A-RPC (RoHS)
Customer Approval	
Customer Project	

Approved By	Checked By	Made By
 <p>工程 Bob Chen DEC-11-2009</p>	 <p>工程 Vincent Hsu DEC-11-2009</p>	 <p>工程 Jason Chen DEC-11-2009</p>



Advanced Acoustic Technology Corporation

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QS9000 Certified

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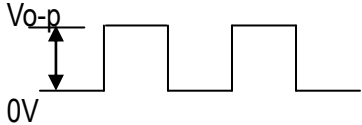
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EDITION:1.1

1. Specifications

AS-1204A-RPC (RoHS)

Items		Units	Specifications	Conditions
01	Rated Voltage	Vo-p	3.5	
02	Operating Voltage	Vo-p	2.0~5.0	
03	Consumption Current	mA (Max)	Mean 70	Applying rated voltage, rated frequency Square wave, 1/2 duty subject to standard state.
			Peak 210	
04	Direct Current Resistance	Ohm	16 ± 3	
05	Sound Output	dB(A) (min)	92	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 ~ +70	
08	Storage Temp.	°C	-40 ~ +85	
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.

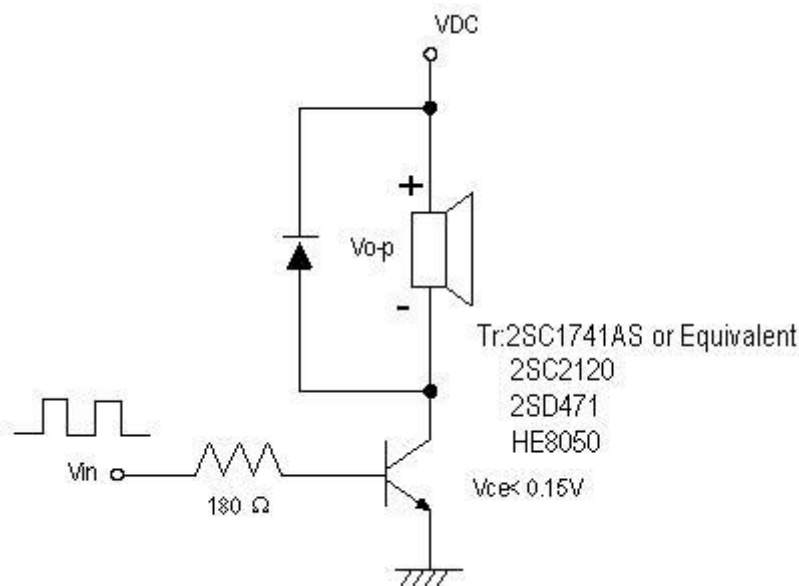
JUDGEMENT

Temperature : 20±3°C

Relative humidity : 60% ~ 70%,

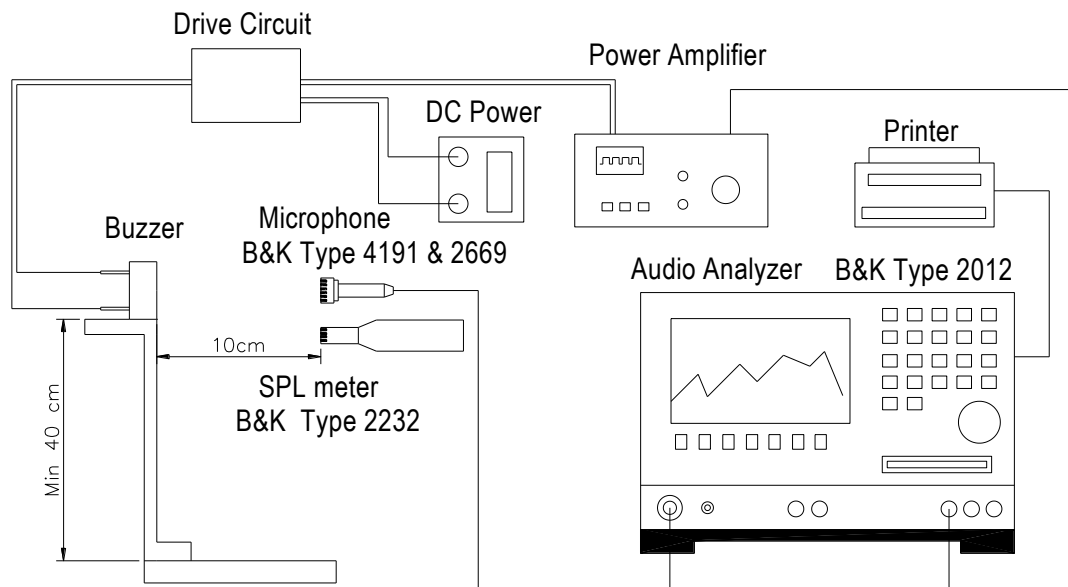
Atmospheric pressure : 860mbar to 1060mbar

2-2. Standard Drive Circuit:

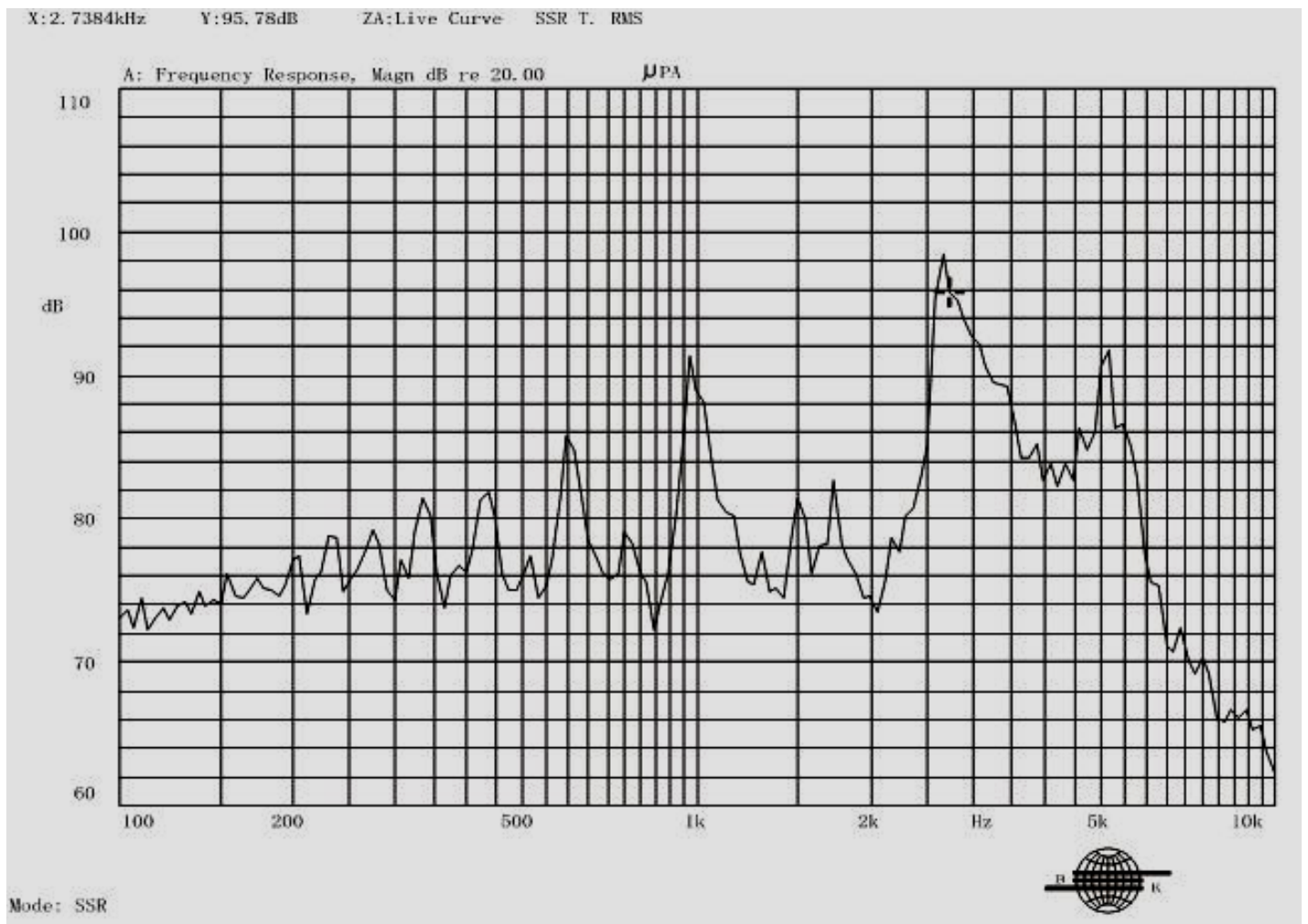


注意：不可使用於水洗製程

2-3. Standard Test Fixture



2-4. Frequency Response Curve

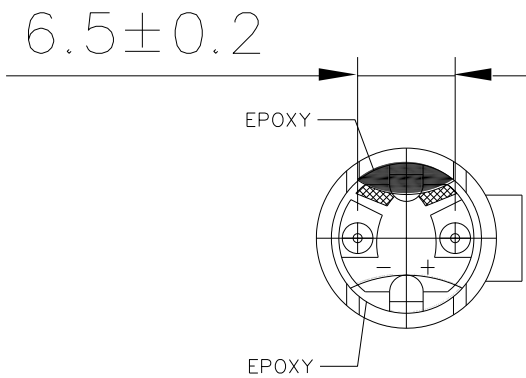
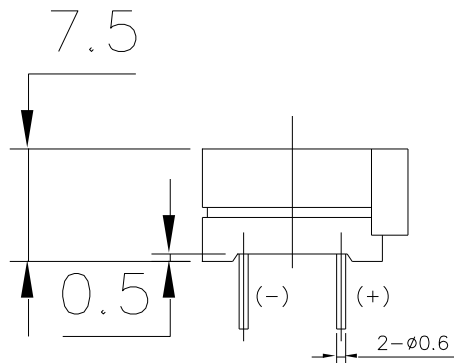
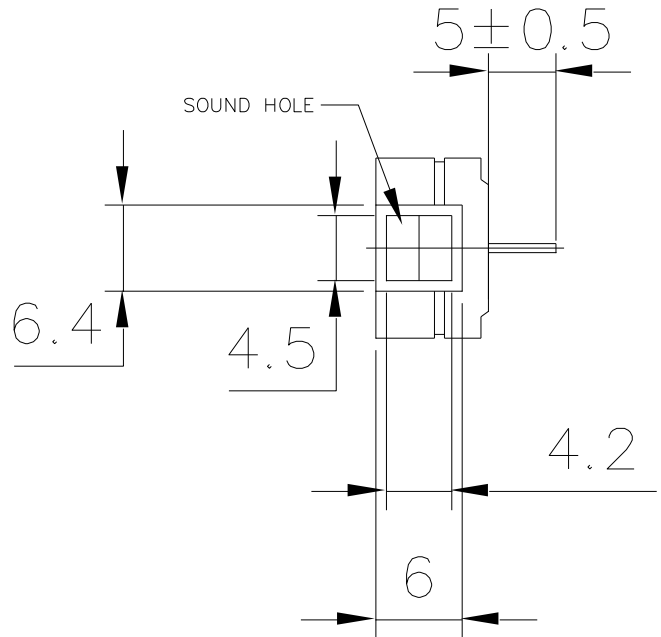
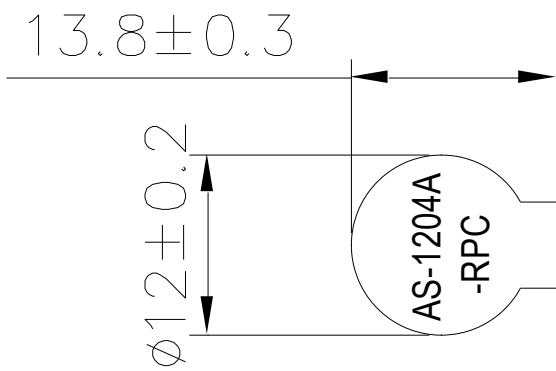


REV NO.

REVISION NOTE

APPROVAL

DATE



WASH NOT ALLOWED

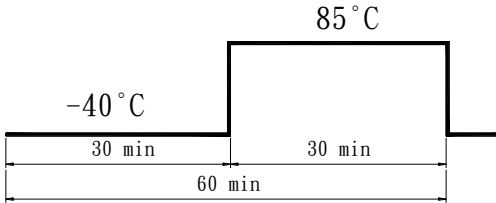
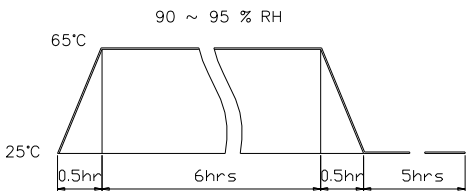
RoHS

TITLE: SOUND TRANSDUCER DIMENSIONS		DRAWN: Jason	2009/12/11	SCALE: 3:1	SHEET: 1 OF 1
PART NO. AS-1204A-RPC		DESIGNED: R&D OF AAT		UNITS: mm	
DWG NO. HS-091211		CHECKED:		TOLERANCE ± 0.5	
		APPROVAL:		UNLESS OTHERWISE SPECIFIED:	
REV 1		MATERIAL: NORYL		ONE PLACE DECIMAL ± ***	
				TWO PLACE DECIMAL ± ***	
				THREE PLACE DECIMAL ± ***	



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ADVANCED ACOUSTIC TECHNOLOGY CORPORATION

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.	After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L S.P.L shall be 82dB 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	The part shall be subjected 10 cycles. One cycle shall consist of; 	
04 Temp./Humidity cycle	The part shall be subjected 10 cycles. One cycle shall be 12 hours and consist of; 	
05 Operating life	Rated Voltage,Frequency applied. 1. Ordinary temperature The part shall be subjected to 1000 hours at room temperature (25 ±10°C) 1. 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	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
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)	After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L S.P.L shall be 82dB or more.
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 : $360\pm 5^{\circ}\text{C}$ / 2sec Recommend using constant searing-iron	
10	Lead strength	Pull lead with a force of 10N,on the direction of the lead axis for 10 :10 \pm 1 sec	

CAUTION : WAVE SOLDERING AND WASH NOT ALLOWED !

警告：不可使用於錫爐水洗製程!

Note: 1. Forbid plastics section tin stove