

MESSRS.

SPECIFICATION FOR APPROVAL

承 認 書

Product	ELECTRO MAGNETIC BUZZER
Part No.	AC-1205G-P1-LF
Customer Approval	
Customer Part No.	

Approved By	Checked By	Made By
		



Advanced Acoustic Technology Corporation
昊宸股份有限公司 // 常州笠翔电子有限公司



ISO 9001 Certified

ISO 14001 Certified

QS9000 Certified

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EDITION:1.1

RoHS

1. SPECIFICATION

AC-1205G-P1-LF

ITEM		UNITS	SPECIFICATIONS	CONDITIONS
01	Rated Voltage	V	5.0	
02	Operating Voltage	V	3.0 ~ 7.0	
03	Consumption Current	mA (Max)	Mean : 50	Applying rated voltage, rated frequency Square wave, 1/2 duty subject to standard state.
			Peak : 150	
04	Direct Current Resistance	Ω	40±6	
05	Sound pressure level (Distance at 10cm)	dBA (Min)	85	Applying rated voltage, rated frequency Square wave, 1/2 duty subject to standard state.
06	Rated Frequency	Hz	2400	
07	Operating Temp.	°C	-30 ~ +70	
08	Storage Temp.	°C	-40 ~ +85	
09	Weight	g	2.0	

2. MEASURING METHOD

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

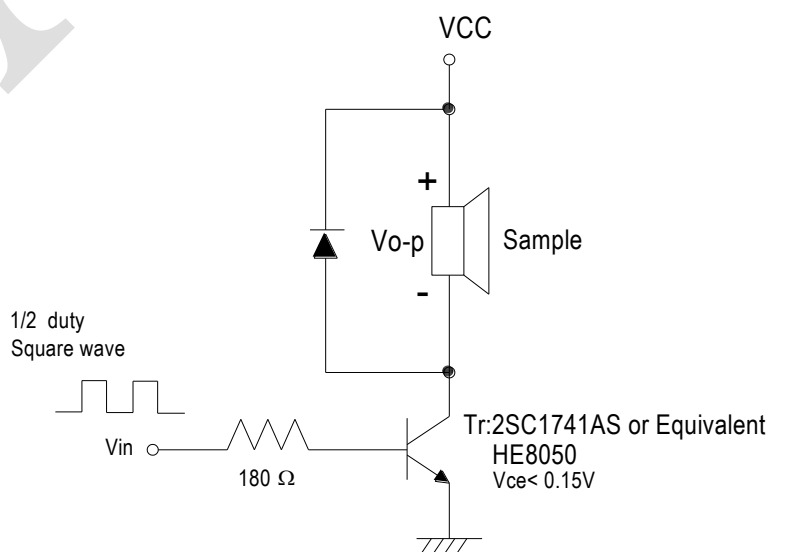
JUDGEMENT

Temperature : 20±3°C

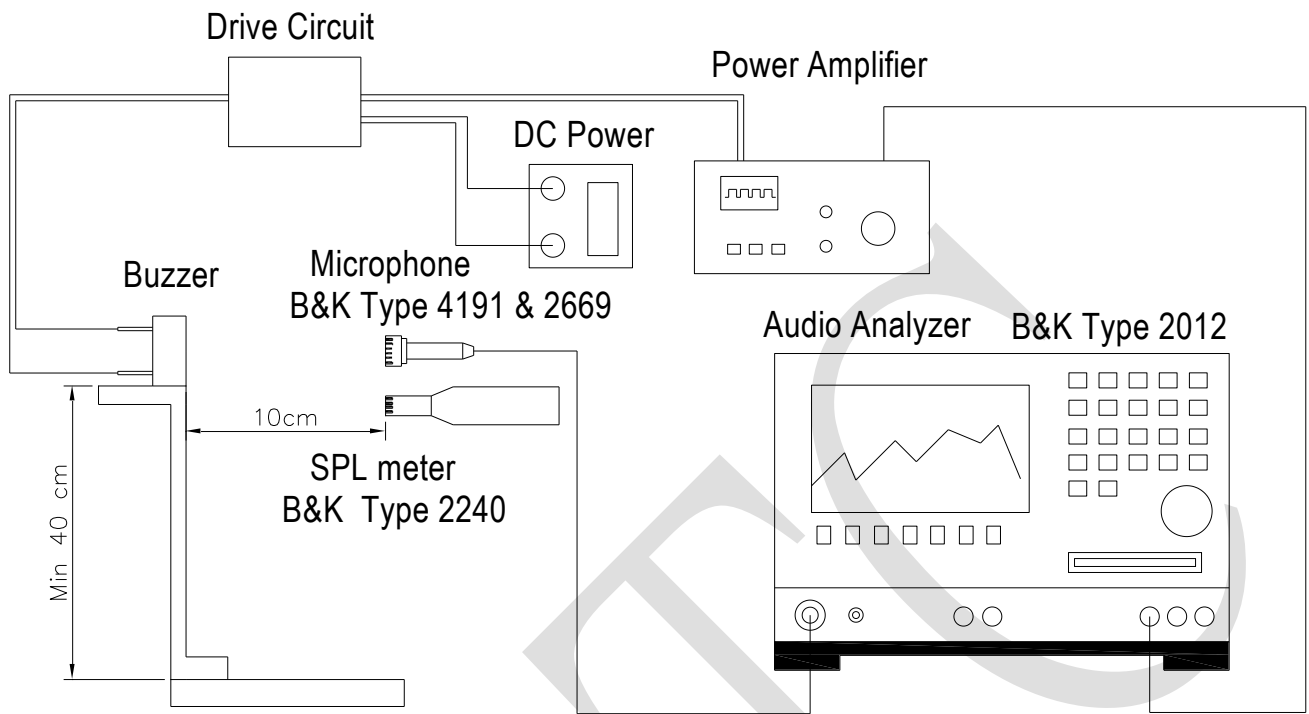
Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

2-2. Standard drive circuit

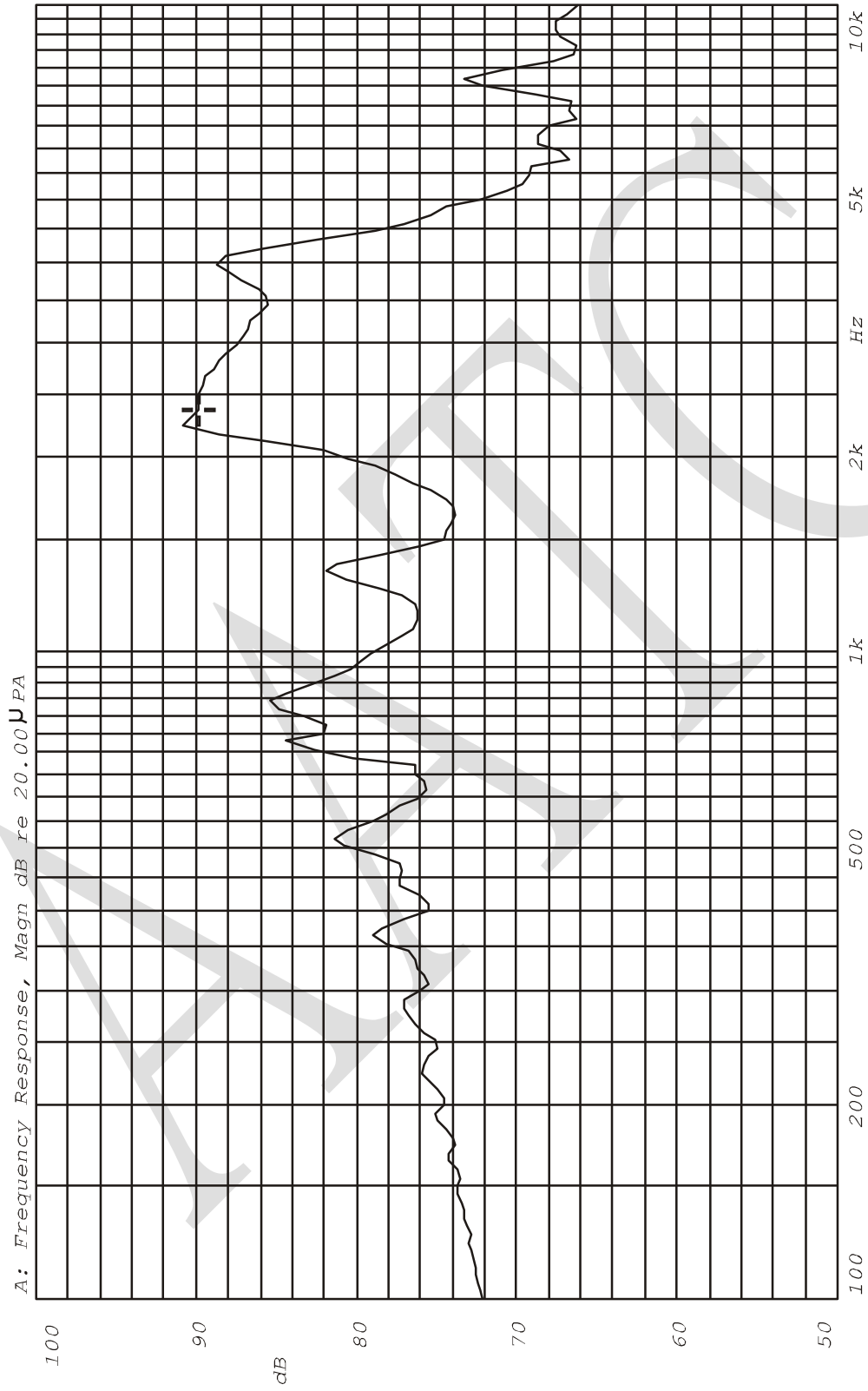


2-3. Standard Test Fixture



2-4. Frequency Response Curve

X:2.3714kHz Y:89.89dB ZA:Live Curve SSR T. RMS



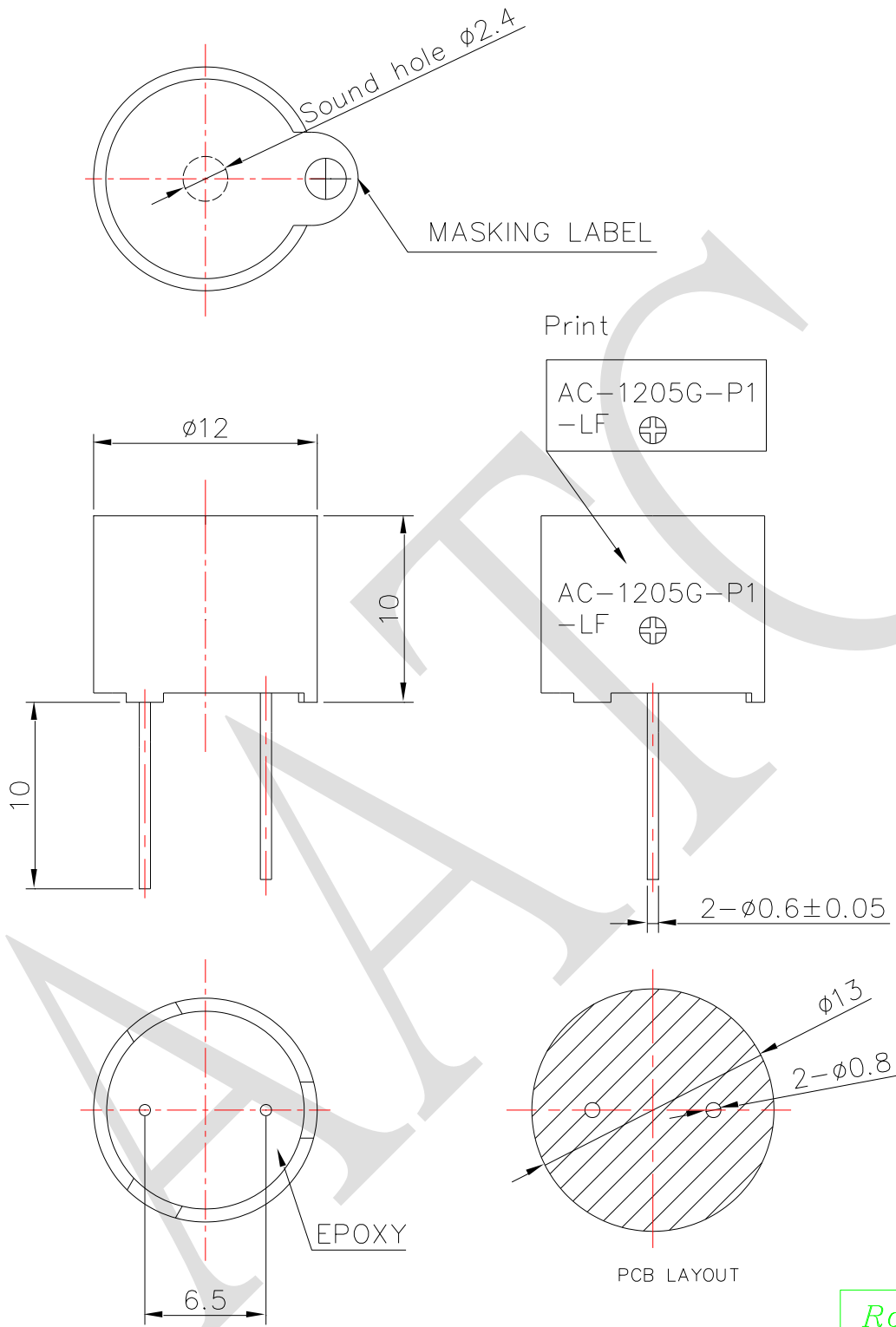
Mode: SSR

REV NO.

REVISION NOTE

APPROVAL

DATE



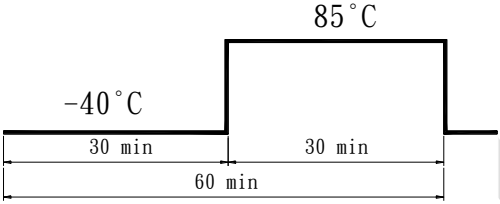
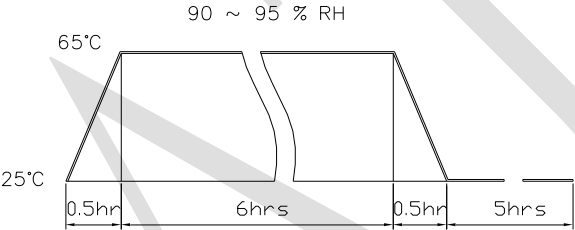
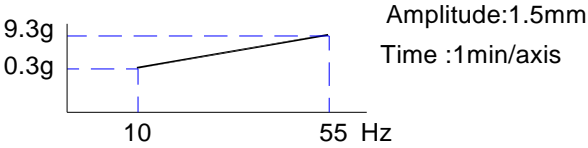
RoHS

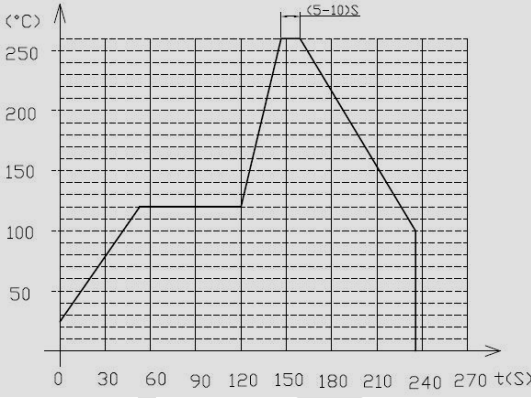
TITLE: ELECTRO MAGNETIC BUZZER		DRAWN: Jerry	2013/01/29	SCALE: 4:1	SHEET: 1 of 1
PART NO. AC-1205G-P1-LF		DESIGNED: R&D OF AAT	UNITS: mm		
DWG NO. UGC12G-05P10B	1 REV	CHECKED:	TOLERANCE ± 0.5		
		APPROVAL:	UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL \pm *** TWO PLACE DECIMAL \pm *** THREE PLACE DECIMAL \pm ***		
		MATERIAL: PBT			



ADVANCED ACOUSTIC TECHNOLOGY CORPORATION

4. RELIABILITY TESTS

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 of ;</p> 	
04 Temp./Humidity cycle	<p>The part shall be subjected 10 cycles. One cycle shall be 12 hours and consist of;</p> 	<p>1. After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L</p> <p>2. S.P.L shall be ± 7 dB.</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 ($25 \pm 10^\circ\text{C}$) High temperature The part shall be subjected to 500 hours at 70°C Low temperature The part shall be subjected to 500 hours at -30°C 	
06 Vibration	 <p>Make this test for the directions of X, Y, Z for 2 hours each (total 6 hours).</p>	

Item	Test conditions	Evaluation standard
07	Free drop The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 1 times in 3 Direction each (X.Y.Z). (a total of 3 times).	1. After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L 2. S.P.L shall be ± 7 dB.
	Free drop (Packing) The part only shall be dropped from a height of 100cm onto a 10mm thick wooden board 1 times in 3 axes (X.Y.Z). (a total of 3 times).	
08	Solder ability Hand Soldering : $360 \pm 5^{\circ}\text{C}$ / ≤ 2 Sec. Recommend using constant searing-iron	
09	Soldering profile  <p>Soldering into solder bath: $260 \pm 5^{\circ}\text{C}$.</p>	
10	Lead strength Pull lead with a force of 5N, on the direction of the lead axis for 10 : 10 ± 1 sec	
11	Wash ability Solvent : deionizer water Solvent temp. : $55 \pm 5^{\circ}\text{C}$ Soaking time : 5 ± 0.5 min.	
Note: 1. After solder bath, the cooling time must be longer than 2 hours before function test. 2. If you need more information, please contact our technology department, thank you.		