

MESSRS.

SPECIFICATION FOR APPROVAL

承 認 書

Product	ELECTRO MAGNETIC BUZZER
Part No.	AC-1001N-RP4
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

Head Company / 2F, No.207, Sec. 6, Chung Shan N. Rd., Taipei, Taiwan

Tel: +886-2-8866-5255

Fax: +886-2-8866-5250

大陸總公司 / 中國江蘇省常州市新北區瀏陽河路 168 號

Tel: +86-519-8511-2382

Fax: +86-519-8510-0908

<http://www.aatc.tw>

RoHS




ADVANCED ACOUSTIC TECHNOLOGY CORP.

昊窳股份有限公司

REVISIONS			
PRODUCT		ELECTRO MAGNETIC BUZZER	
PART NO.		AC-1001N-RP4	
REV.	REVISER	DATE	DESCRIPTION
1	MOOSE	2017-06-02	Creating new drawing SPEC.
			RoHS

1. SPECIFICATION

AC-1001N-RP4

ITEM		UNITS	SPECIFICATIONS	CONDITIONS
01	Rated Voltage	V	1.5	
02	Operating Voltage	V	1 ~ 3	
03	Consumption Current	mA Max.	95	
04	Sound pressure level (Distance at 10cm)	dB(A) Min.	85	Standard state, standard drive circuit. Square wave 1/2 duty.
05	Direct Current Resistance	Ω	5.5±1	Rated voltage, rated frequency.
06	Rated Frequency	Hz	2950	
07	Operating Temp.	°C	-30 ~ +70	
08	Storage Temp.	°C	-40 ~ +85	
09	Weight	g	0.6±0.2	

2. MEASURING METHOD

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

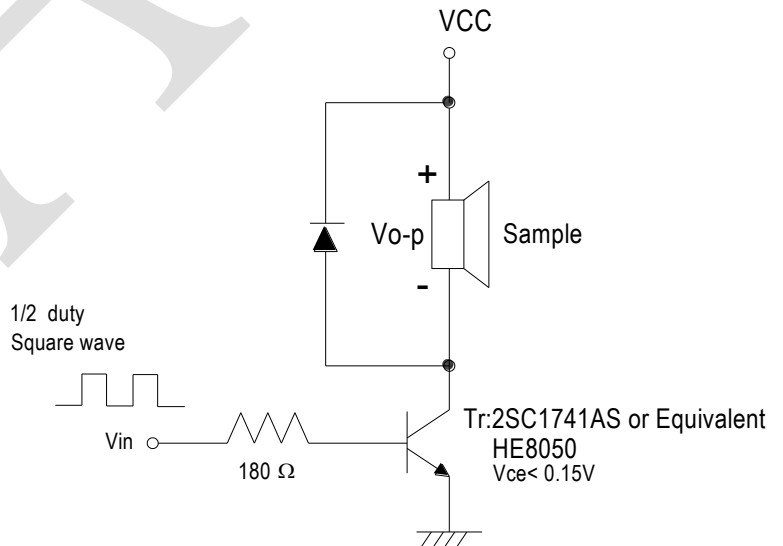
JUDGEMENT

Temperature : 20±3°C

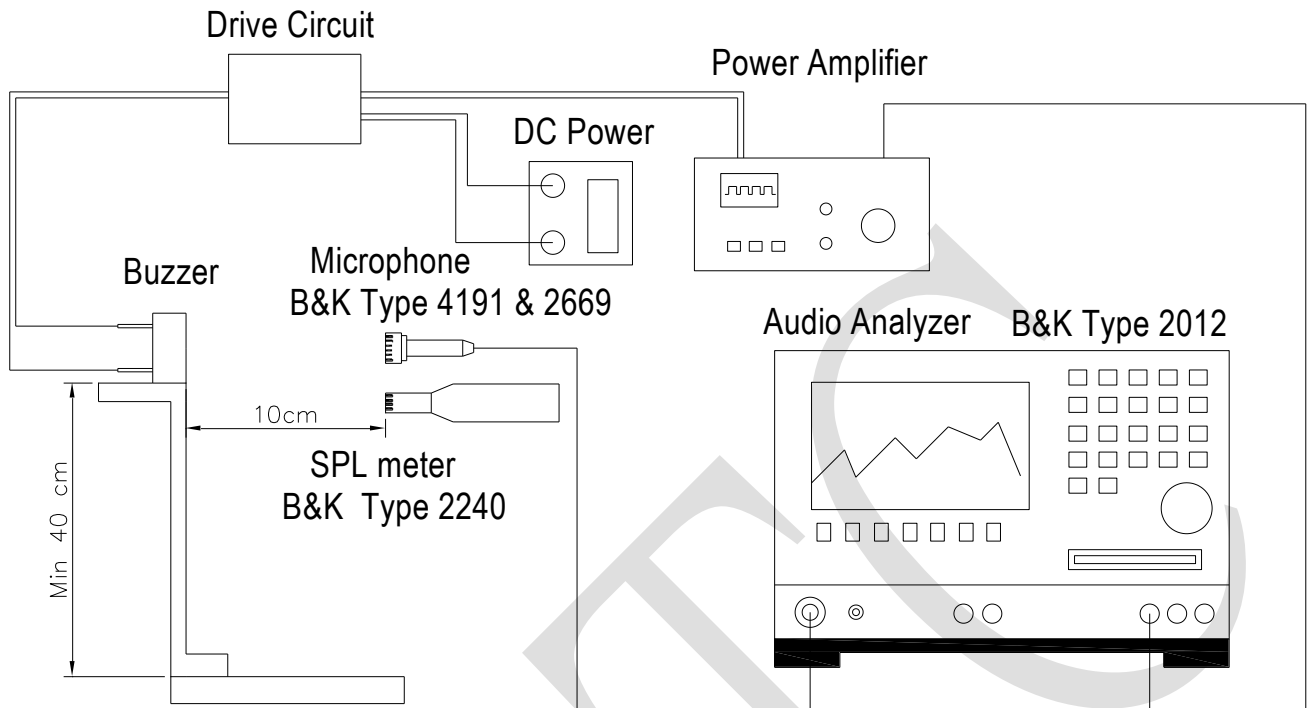
Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

2-2. Standard drive circuit

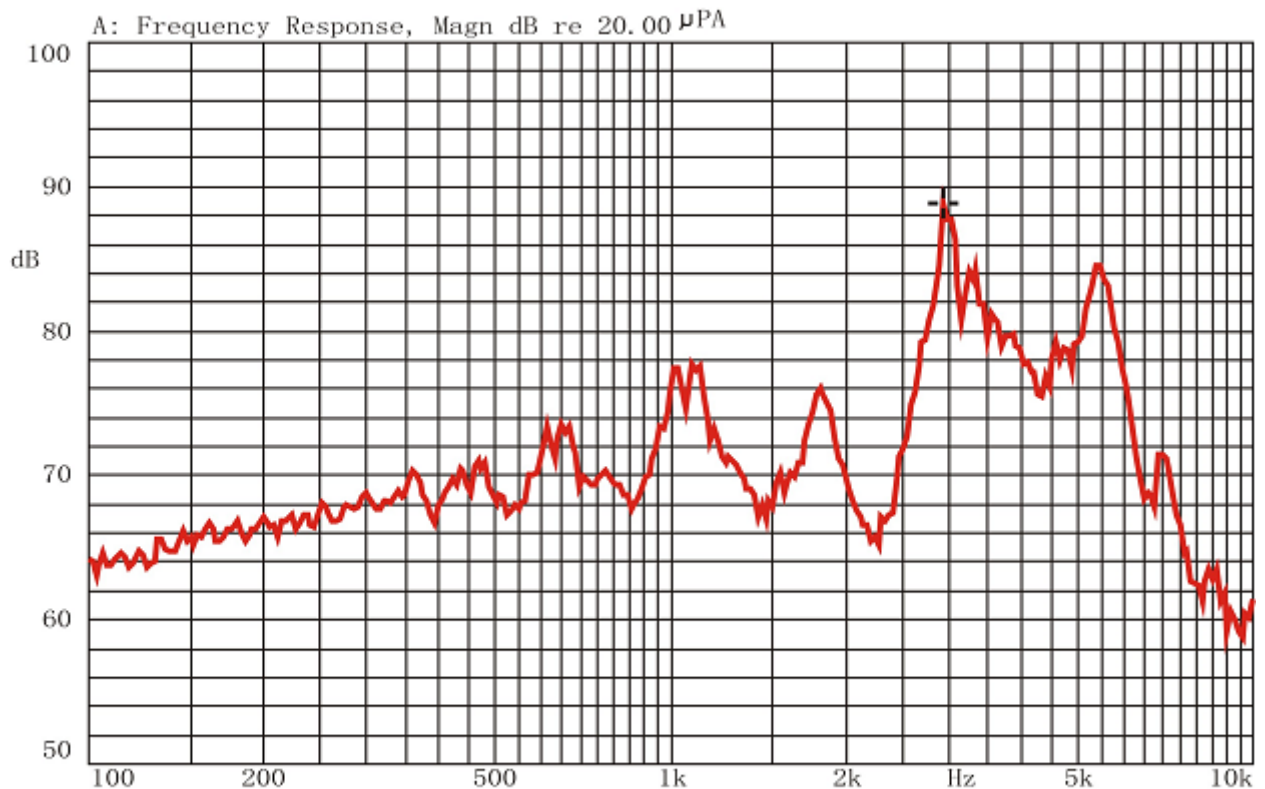


2-3. Standard Test Fixture



2-4. Frequency Response Curve

X:2.9427kHz Y:88.82dB ZA:Live Curve SSR T. RMS

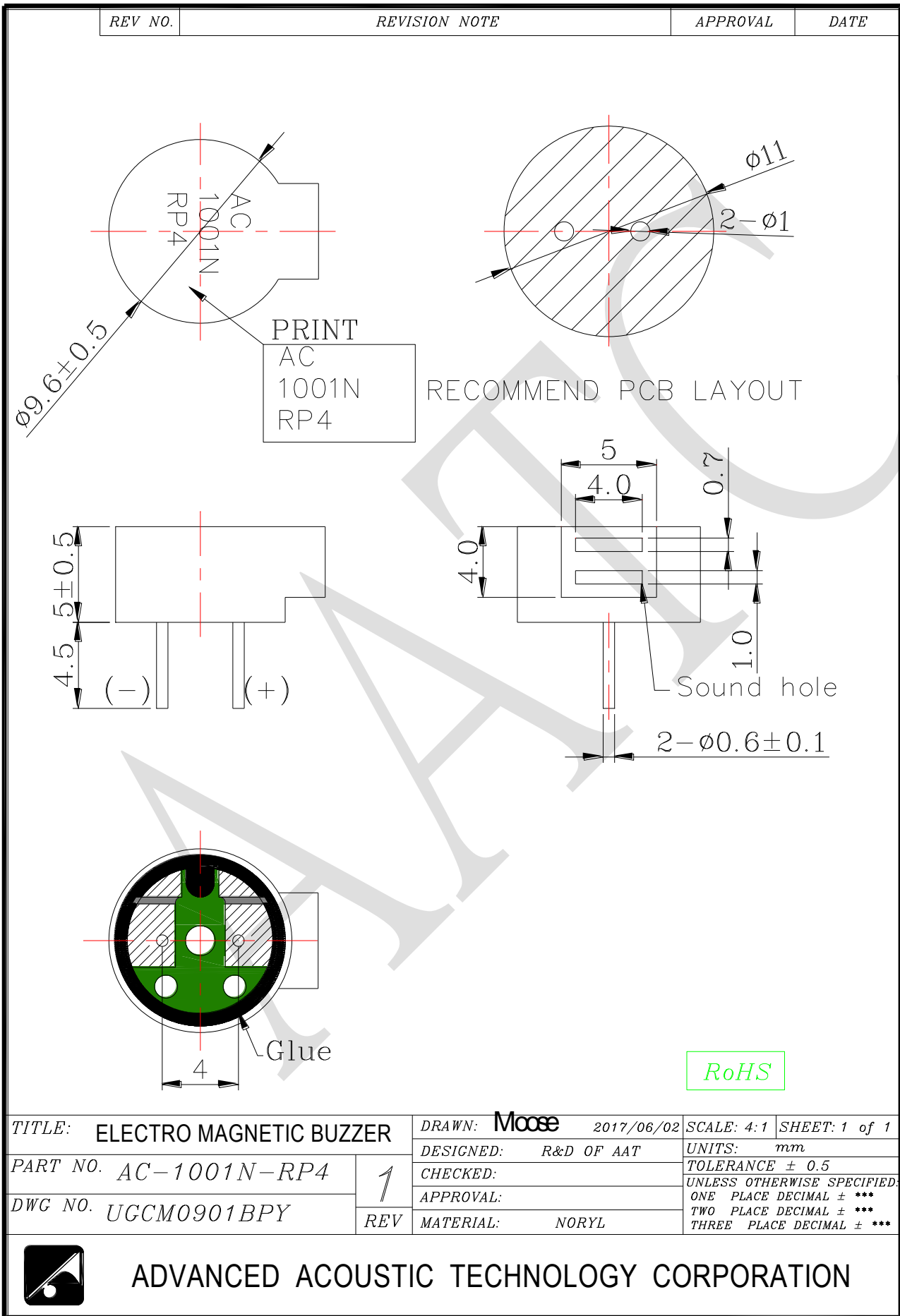


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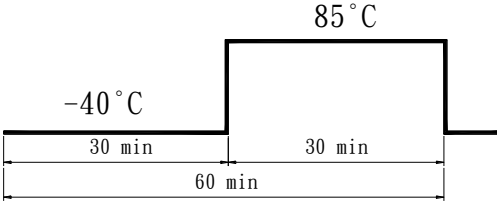
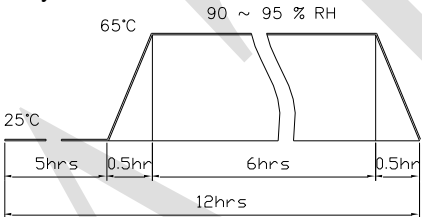
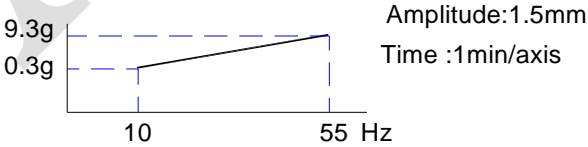
Mode: SSR



3. DIMENSIONS



4. RELIABILITY TESTS

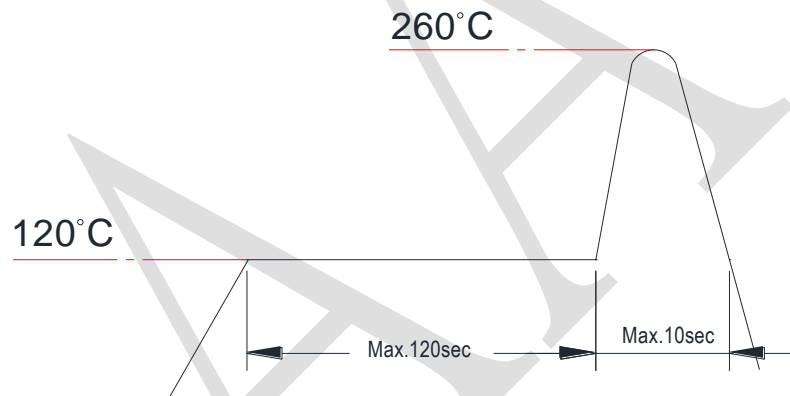
Item	Test conditions	Evaluation standard
01 High temp. Storage life	The part shall be capable of withstanding a storage Temperature of +85°C for 96 hours.	<p>1. After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L</p> <p>2. S.P.L shall be ±7 dB.</p>
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 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 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>	
07 Lead strength	Pull lead with a force of 9.8N, on the direction of the lead axis for 10 :10±1 sec	

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 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).	

5. Cautions for use

- As this product is not protected from foreign material entering, please make sure that any foreign materials do not enter this product in your production processes.
(e.g. magnetic powder, washing solvent, flux, corrosive gas)
- The functional degradation may occur if foreign material enter it. (e.g. SPL down)
- Washing of the component is not acceptable. Because it is not seal.
- After solder bath, the cooling time must be longer than 2 hours before function test.
- Soldering profile

Soldering into solder bath: $260 \pm 5^\circ\text{C}$, 3~5 Sec.



- Soldering with iron

Hand Soldering : $360 \pm 5^\circ\text{C}$ / ≤ 2 Sec.

Recommend using constant searing-iron

If you need more information, please contact our technology department, thank you.

6.PACKING

