



MESSRS. 客戶公司行號

SPECIFICATION FOR APPROVAL

承 認 書

Product	ELECTRO MAGNETIC BUZZER(SMD)
Part No.	AD-8504-1BX
Customer Approval	
Customer Part No.	

Approved By	Checked By	Made By
 <p>工程 DANNY LIU APR-25-2017</p>	 <p>工程 MOOSE CHEN APR-25-2017</p>	 <p>工程 ZACK KUO APR-25-2017</p>



Advanced Acoustic Technology Corporation
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RoHS

1. SPECIFICATION

AD-8504-1BX

ITEM		UNITS	SPECIFICATIONS	CONDITIONS
01	Rated Voltage	V	3.6	
02	Operating Voltage	V	2 ~ 4	
03	Consumption Current	mA (Max)	Mean : 80	Standard state, standard drive circuit. Rated voltage, rated frequency, Square wave 1/2 duty.
			Peak : 240	
04	Sound pressure level (Distance at 10cm)	dB(A) (Min)	85	
05	Direct Current Resistance	Ω	17 ± 3	
06	Rated Frequency	Hz	2710	
07	Operating Temp.	$^{\circ}\text{C}$	-30 ~ +70	
08	Storage Temp.	$^{\circ}\text{C}$	-40 ~ +85	
09	Weight	g	0.2	

2. MEASURING METHOD

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35 $^{\circ}\text{C}$

Relative humidity : 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

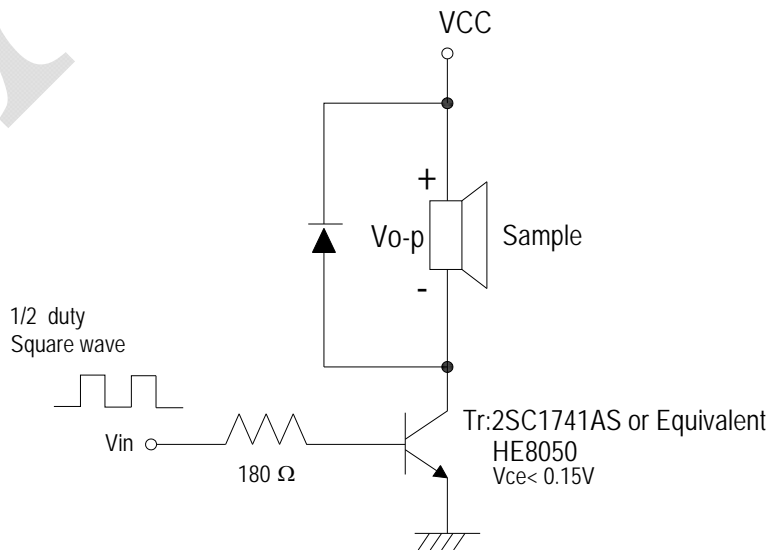
JUDGEMENT

Temperature : 20 \pm 3 $^{\circ}\text{C}$

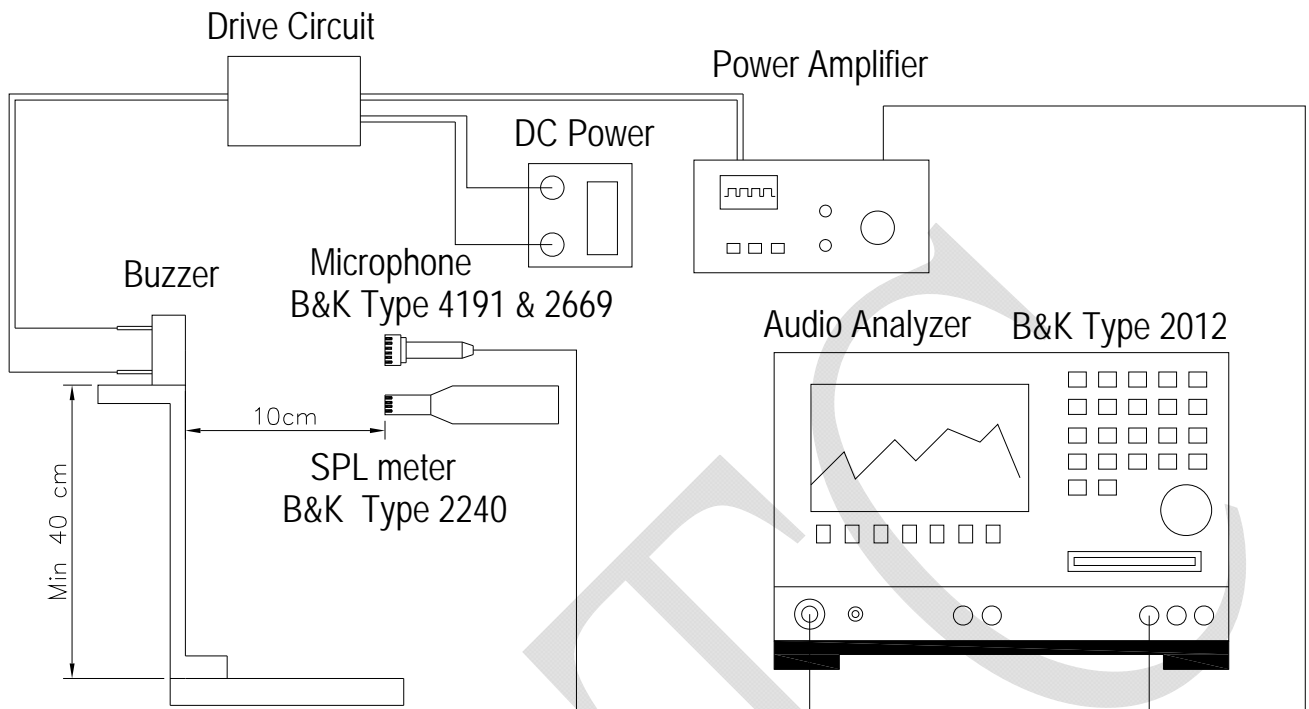
Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

2-2. Standard drive circuit

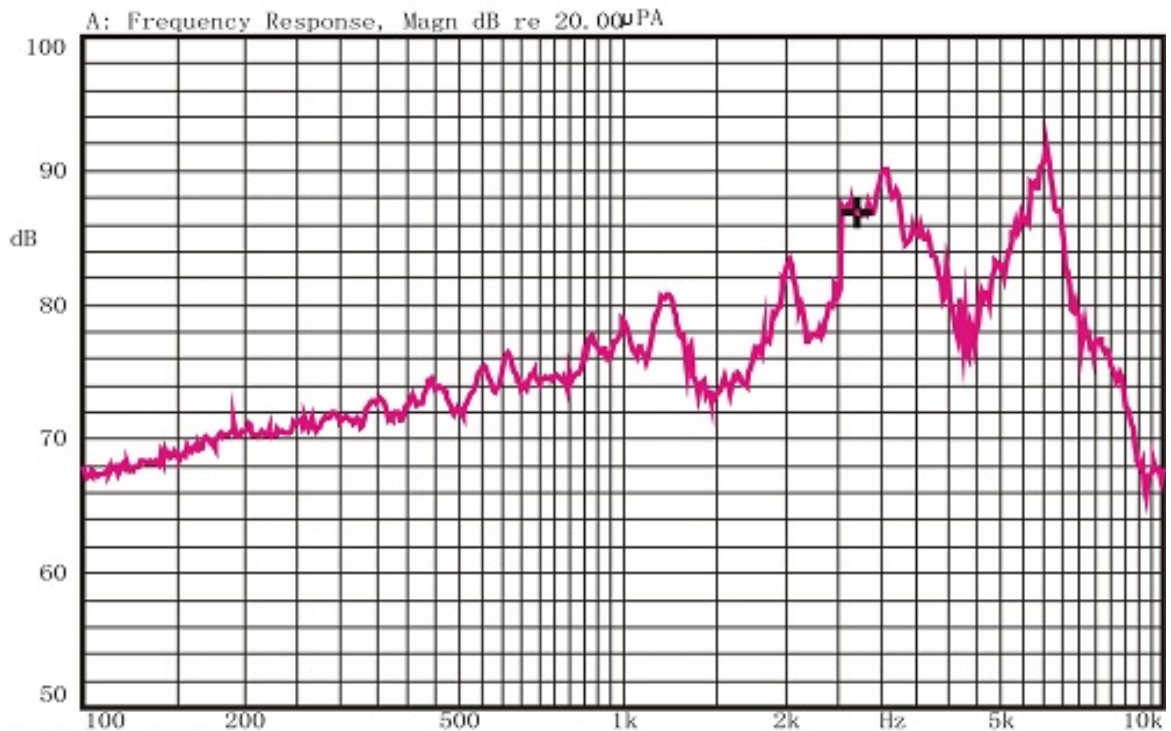


2-3. Standard Test Fixture



2-4. Frequency Response Curve

X:2.7188kHz Y:86.97dB ZA:Live Curve SSR T. RMS

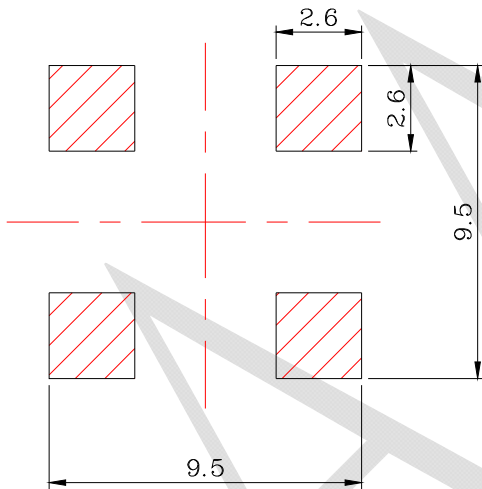
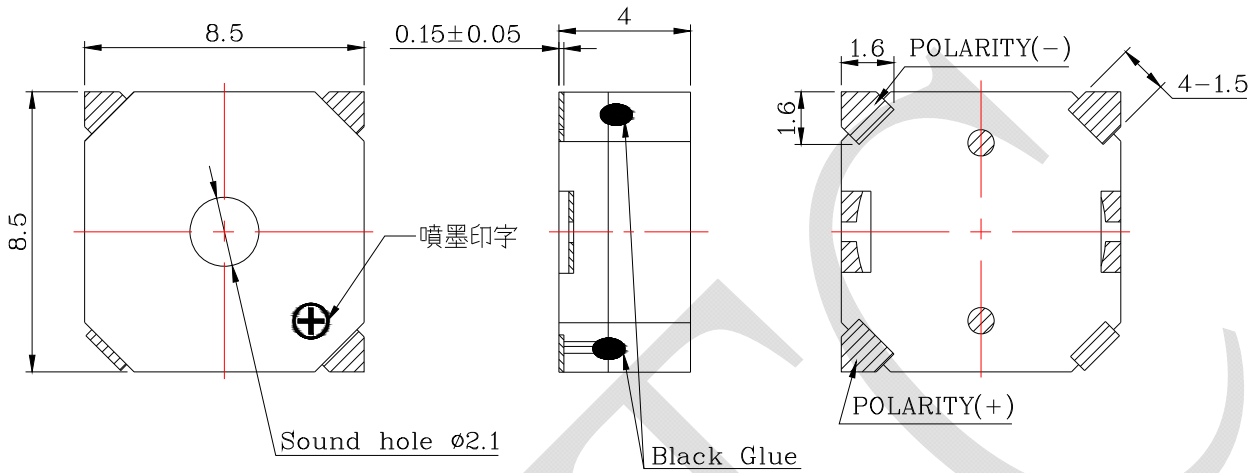


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Mode: SSR



REV NO.	REVISION NOTE	APPROVAL	DATE
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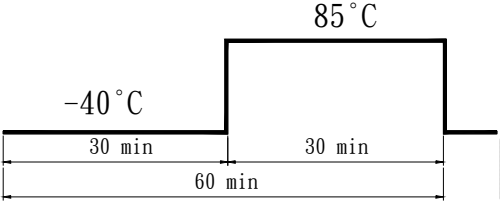
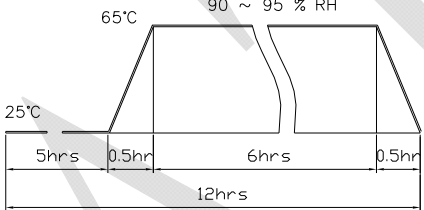
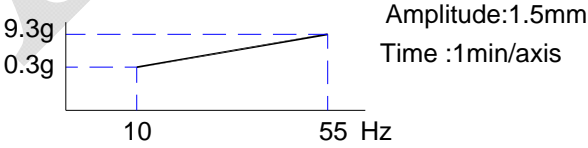
RoHS

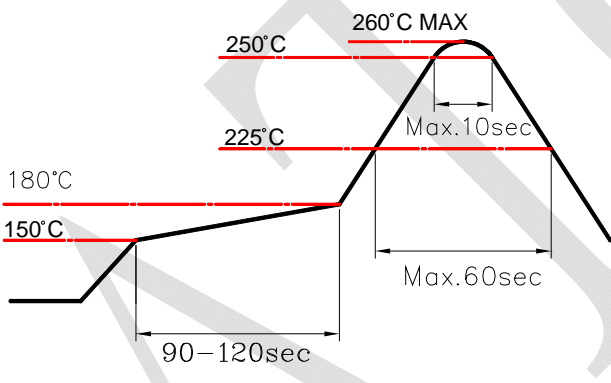
TITLE: SOUND TRANSDUCER (SMD)		DRAWN: Zack	2017/04/25	SCALE: 1:1	SHEET: 1 : 1
PART NO. AD-8504-1BX		DESIGNED: R & D OF AAT	UNITS: mm		
DWG NO. FDM-1057 SMD-085040F-03627	2	CHECKED:	TOLERANCE ± 0.5		
		APPROVAL:	UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL \pm *** TWO PLACE DECIMAL \pm *** THREE PLACE DECIMAL \pm ***		
	REV	MATERIAL: LCP			



ADVANCED ACOUSTIC TECHNOLOGY CORPORATION

4. RELIABILITY TESTS

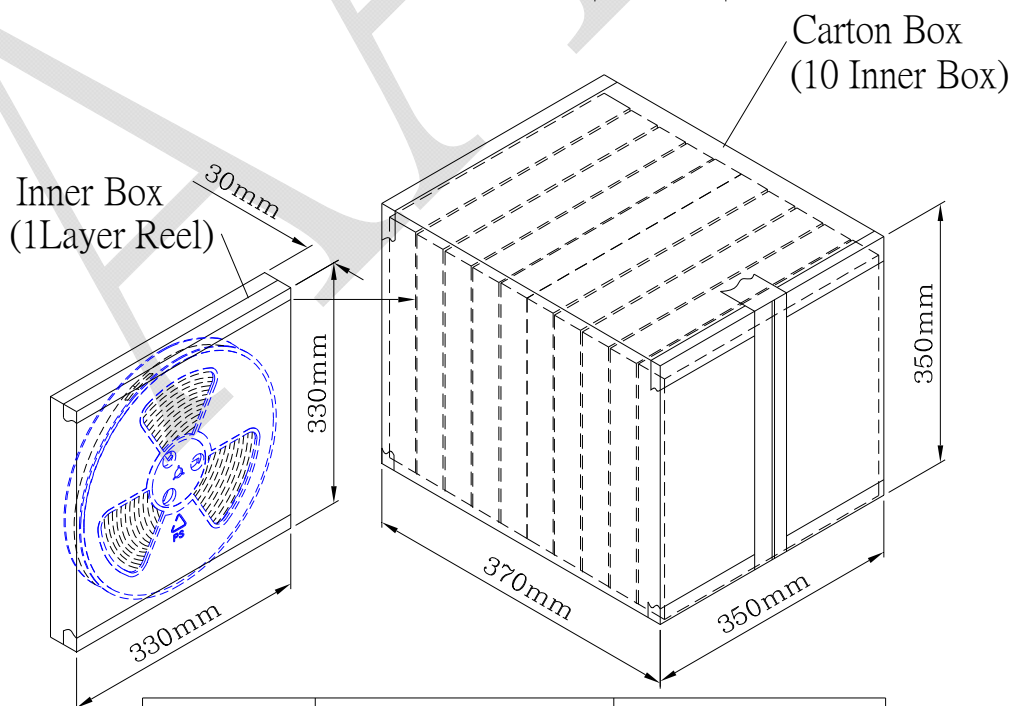
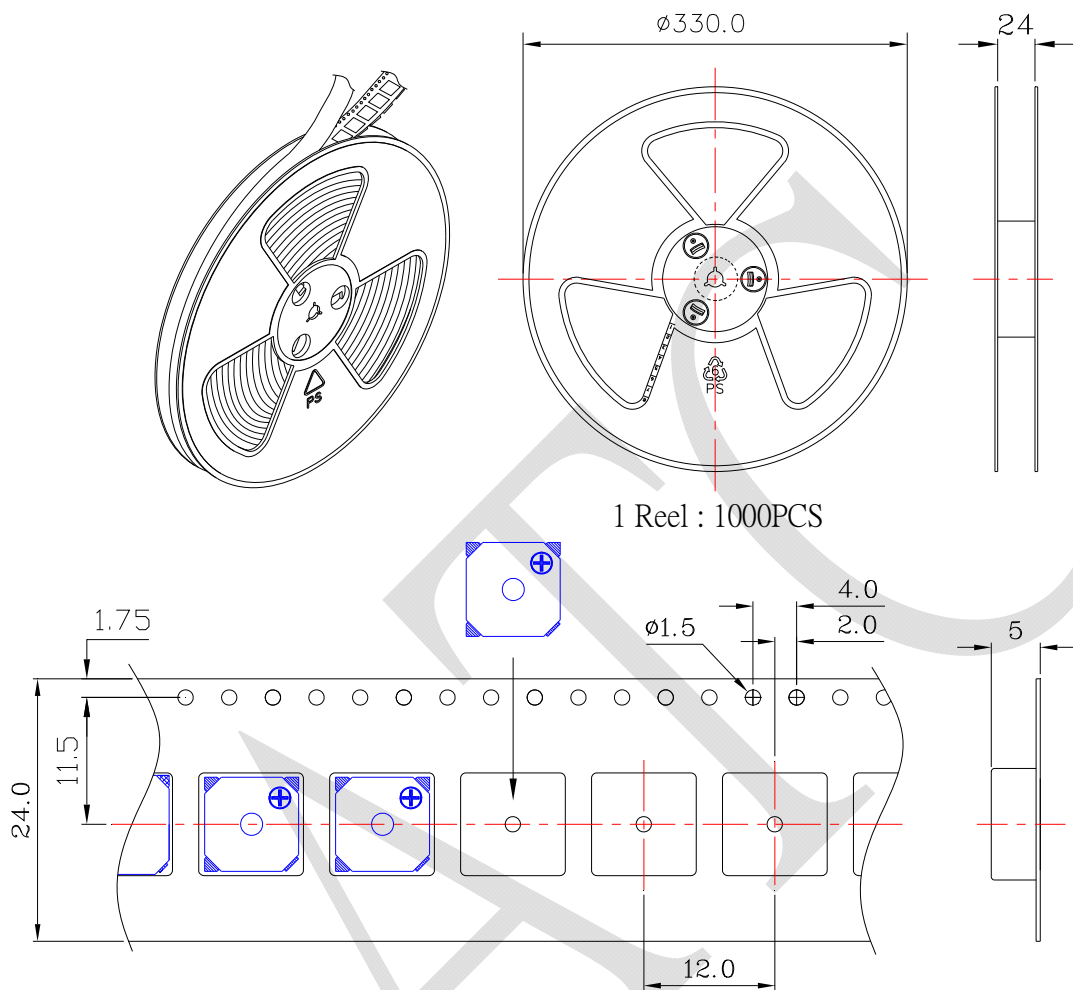
Item	Test conditions	Evaluation standard
01 High temp. Storage life	The part shall be capable of withstanding a storage Temperature of +85°C for 96 hours.	
02 Low temp. Storage life	The part shall be capable of withstanding a storage Temperature of -40°C for 96 hours.	
03 Temp. cycle	<p>The part shall be subjected 10 cycles. One cycle shall of ;</p> 	
04 Temp./Humidity cycle	<p>The part shall be subjected 10 cycles. One cycle shall 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 	<ol style="list-style-type: none"> After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L S.P.L shall be ±7 dB.
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).	
08	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).	
09	Solder heat resistance	<p>1.Hand Soldering : $360\pm 10^{\circ}\text{C}$, 2 ± 0.5 Sec. Recommend using constant searing-iron</p> <p>2.Soldering into solder bath:$260\pm 5^{\circ}\text{C}$, $5\sim 10$ Sec. Soldering profile.</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>
10	Wash ability	<p>Solvent : deionizer water Solvent temp. : $55\pm 5^{\circ}\text{C}$ Soaking time : 5 ± 0.5 min. After the washing process, be sure to tear off the label.</p>	

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.

5.PACKING



Inner Box	330mmx330mmx30mm	1x1000PCS=1000PCS
Carton Box	350mmx350mmx370mm	10x1000PCS=10,000PCS