




MESSRS. 客戶公司行號

SPECIFICATION FOR APPROVAL

承 認 書

Product	ELECTRO MAGNETIC BUZZER(SMD)
Part No.	AD-5503-PP
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



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ISO 14001 Certified
QS9000 Certified

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1. SPECIFICATION

AD-5503-PP

ITEM		UNITS	SPECIFICATIONS	CONDITIONS
01	Rated Voltage	V	3	
02	Operating Voltage	V	2 ~ 4	
03	Consumption Current	mA (Max)	Mean : 110	Standard state, standard drive circuit. Rated voltage, rated frequency, Square wave 1/2 duty.
			Peak : 330	
04	Sound pressure level (Distance at 10cm)	dB(A) (Min)	70	
05	Direct Current Resistance	Ω	12 ± 3	
06	Rated Frequency	Hz	4000	
07	Operating Temp.	$^{\circ}\text{C}$	-20 ~ +70	
08	Storage Temp.	$^{\circ}\text{C}$	-30 ~ +80	
09	Weight	g	0.1	

2. MEASURING METHOD

2-1. Test Condition

STANDARD

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

Relative humidity : 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

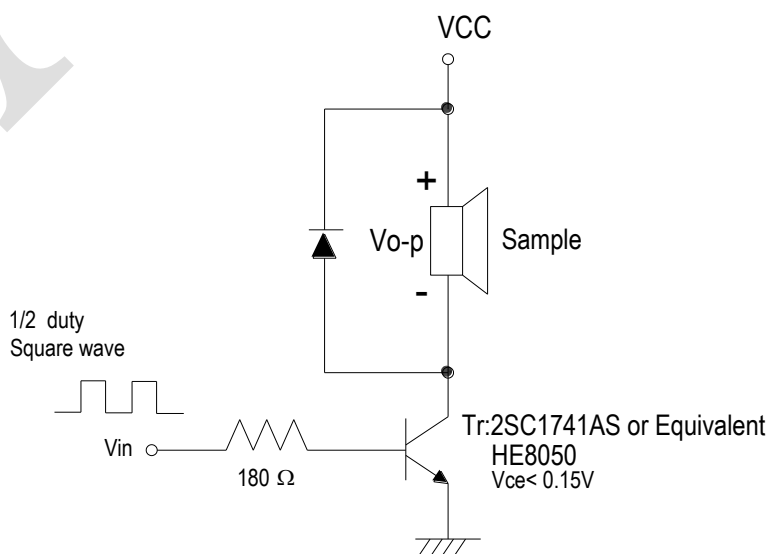
JUDGEMENT

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

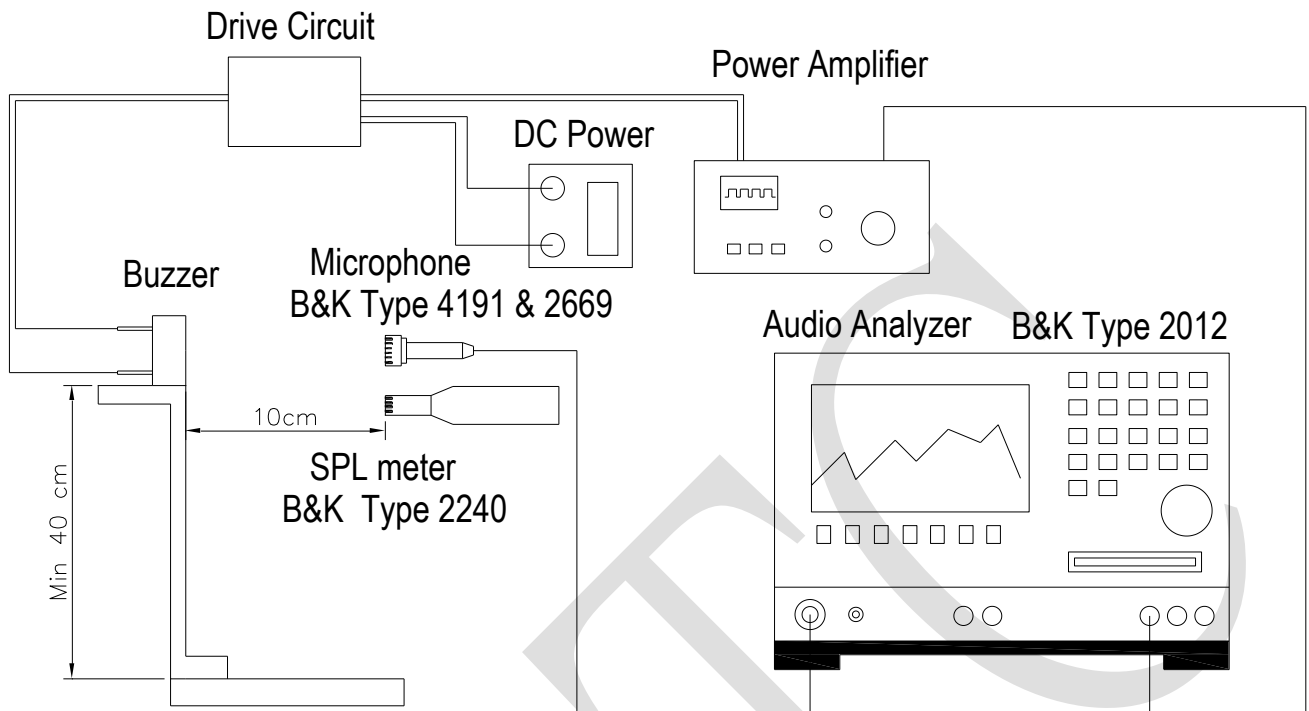
Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

2-2. Standard drive circuit

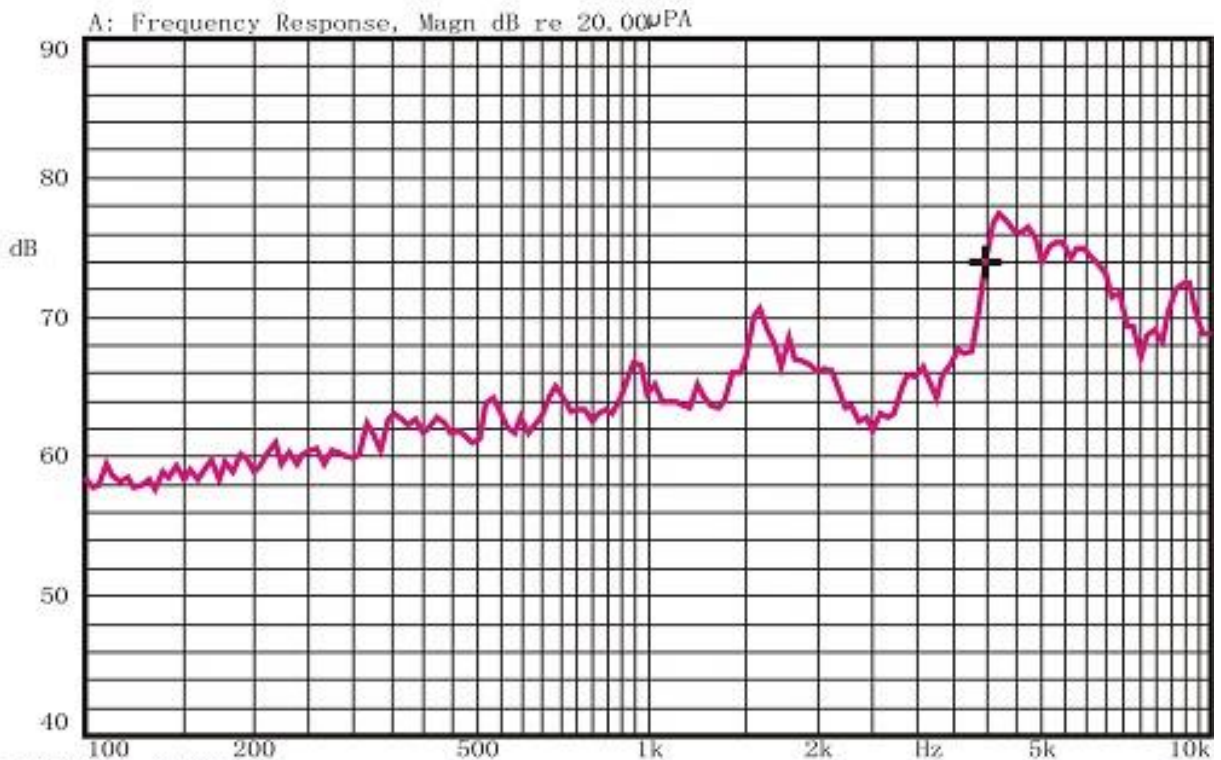


2-3. Standard Test Fixture



2-4. Frequency Response Curve

X:3.9811kHz Y:74.03dB ZA:Live Curve SSR T: RMS

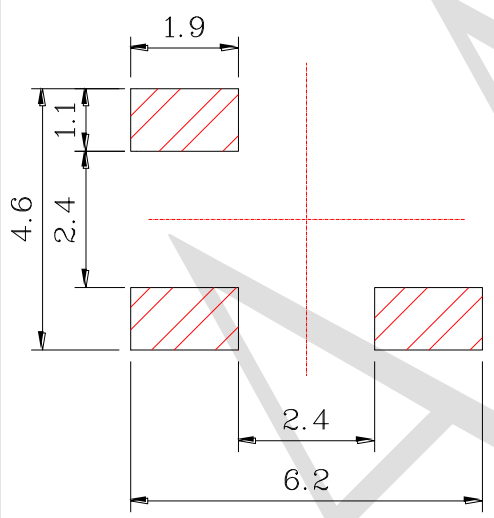
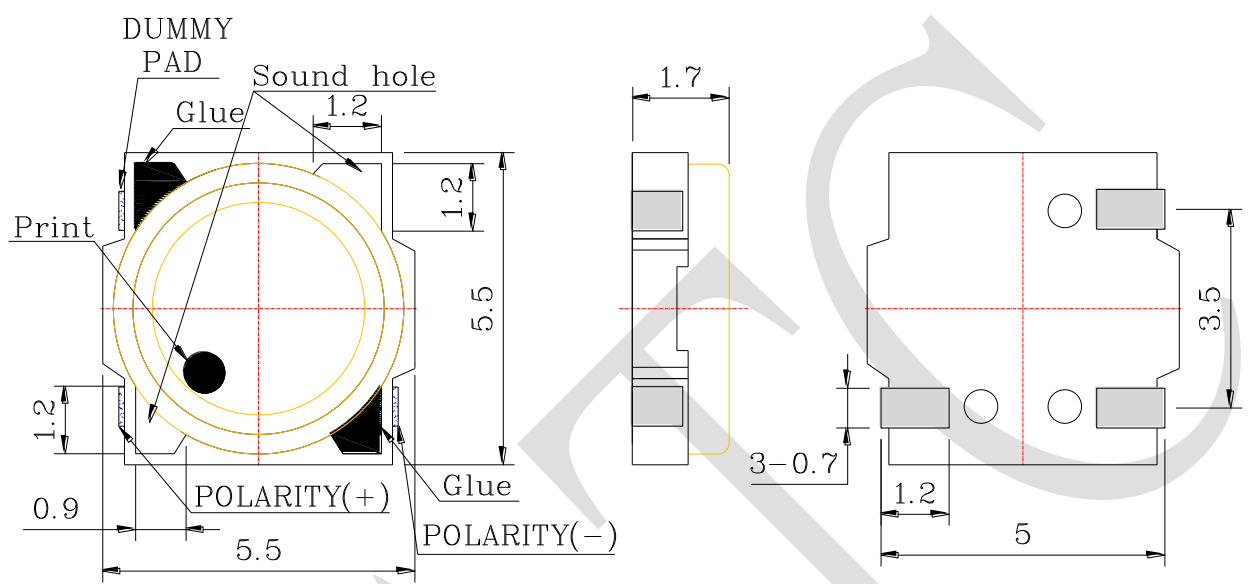


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Mode: SSR



REV NO.	REVISION NOTE	APPROVAL	DATE
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RECOMMENDED PCB LAYOUT

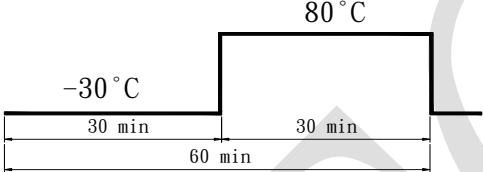
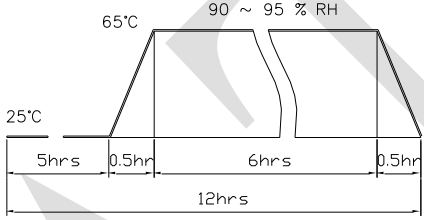
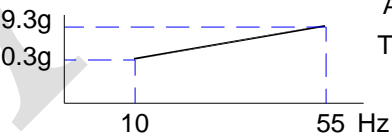
RoHS

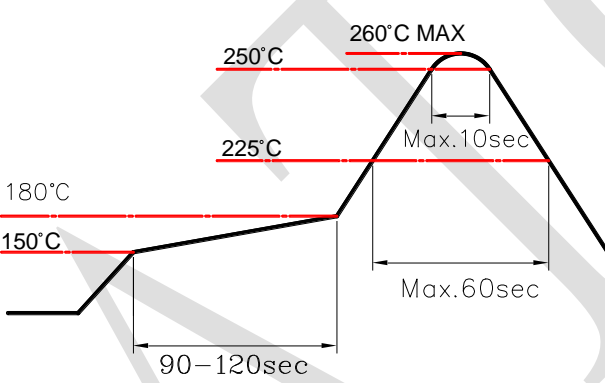
TITLE: SOUND TRANSDUCER (SMD)		DRAWN: Moose 2015/07/21	SCALE: 1:1	SHEET: 1 : 1
PART NO. AD-5503-PP		DESIGNED: R & D OF AAT	UNITS: mm	
DWG NO. FDM-3136 SMD-055017F-03040		CHECKED:	TOLERANCE ± 0.5	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL ± *** TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***	
REV	2	MATERIAL: LCP		



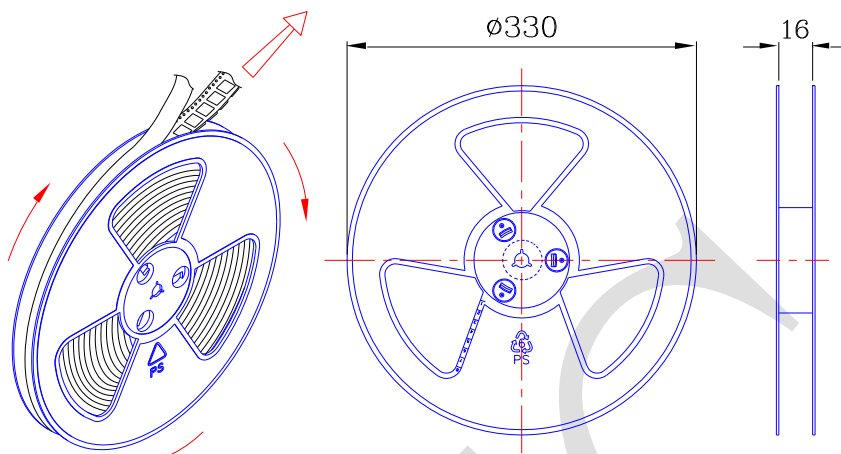
ADVANCED ACOUSTIC TECHNOLOGY CORPORATION

4. RELIABILITY TESTS

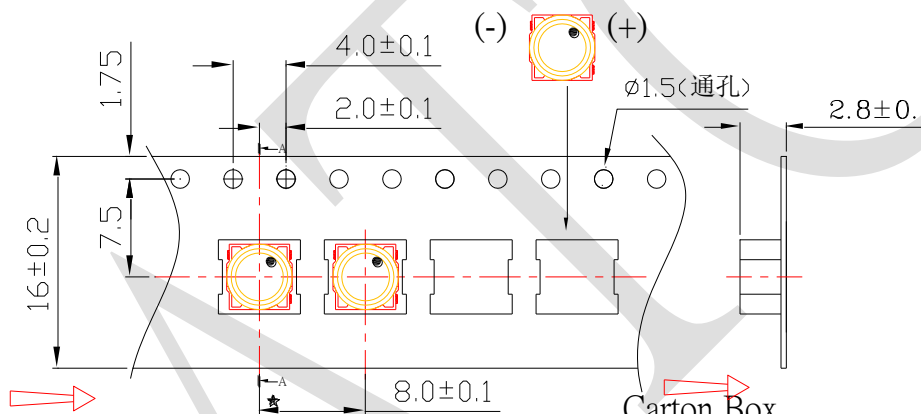
Item	Test conditions	Evaluation standard
01 High temp. Storage life	The part shall be capable of withstanding a storage Temperature of +80°C for 96 hours.	
02 Low temp. Storage life	The part shall be capable of withstanding a storage Temperature of -30°C for 96 hours.	
03 Temp. cycle	<p>The part shall 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 ($25 \pm 10^\circ\text{C}$) High temperature The part shall be subjected to 500 hours at 70°C Low temperature The part shall be subjected to 500 hours at -20°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>Amplitude: 1.5mm Time : 1min/axis</p> <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>	
<p>Note:</p> <ol style="list-style-type: none"> 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

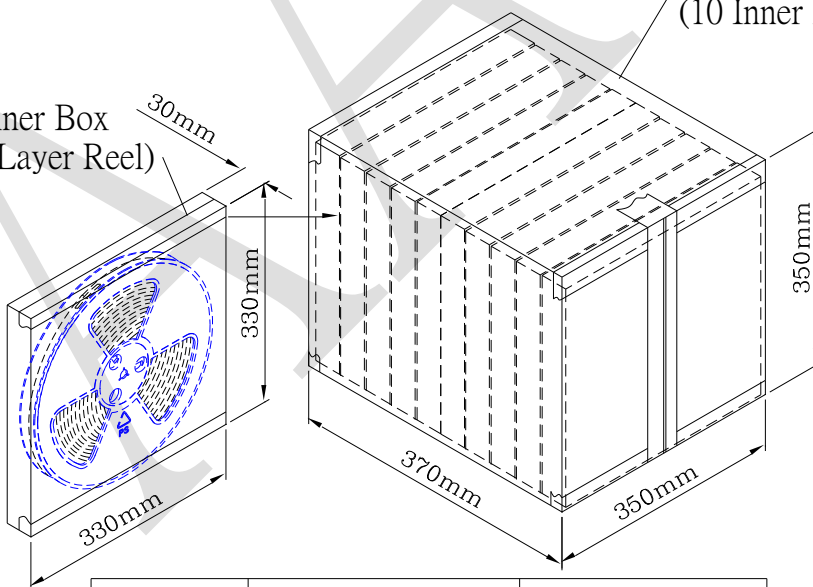


1 Reel : 2500PCS



Carton Box
(10 Inner Box)

Inner Box
(1 Layer Reel)



Inner Box	330mmx330mmx30mm	1x2500PCS=2500PCS
Carton Box	350mmx350mmx370mm	10x2500PCS=25,000PCS

G.W.	9Kg
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