MESSRS.

SPECIFICATION FOR APPROVAL 承 認 書

Product	MAGNETIC BUZZER (SMD)	
Part No.	AD-8504-LQ2-LF(RoHS)	
Customer		
Approval		

Approved By	Checked By	Made By
工程部	工程部	工程部
王台平	劉民祥	許俊程
OCT-27-2005	OCT-27-2005	OCT-27-2005



ADVANCED ACOUSTIC TECHNOLOGY CORP.

萱 翔 科 技 股 份 有 限 公 司



2F, No.207, Sec. 6, Chung Shan N. Rd., Taipei

Tel: +886-2-88665255 Fax: +886-2-88665250

http://www.aatc.com.tw

File Name:

FEATURES

Applications: Mobile phone, PDA, pager etc.

	Items	Units	Specifications	Conditions	
01	Rated Voltage	Vo-p	3.6	Vo-p	
02	Operating Voltage	Vo-p	2.5 ~ 4.5	0V	
03	Concumption Current	mA	Mean 100		
03	Consumption Current	(max)	Peak 300	Standard State, Standard Drive Circuit.	
04	Sound Pressure Label	dB	90	Rated Voltage, Distance at 10 cm free air	
04		(min)	90	4000Hz, Square Wave 1 / 2 Duty	
05	Resonant Frequency	Hz	4000		
06	Coil Resistance	Ω	16 ± 3	At Basic State	
07	Operating Temp.	$^{\circ}\!\mathbb{C}$	-30 ~ +75		
80	Storage Temp.	$^{\circ}\!\mathbb{C}$	-40 ~ +85		
09	Weight	Gram	0.5		

Test Condition

STANDARD

Temperature : 15 ~ 35° C

Relative humidity: 25% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

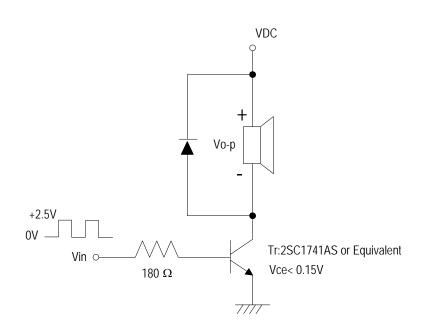
JUDGEMENT

Temperature : $20\pm3^{\circ}$ C

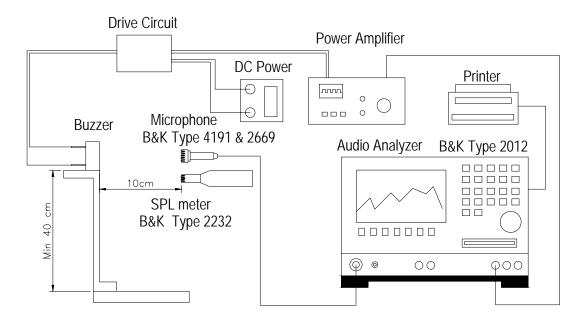
Relative humidity: 60% ~ 70%,

Atmospheric pressure: 860mbar to 1060mbar

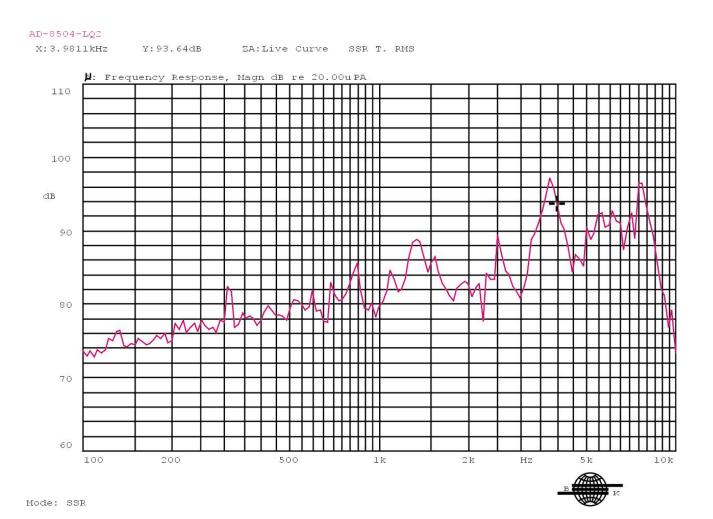
Standard Drive Circuit

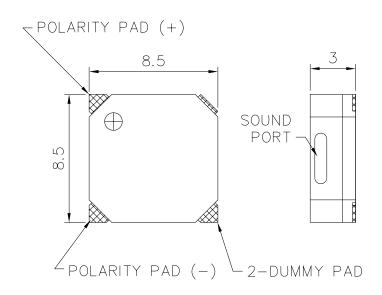


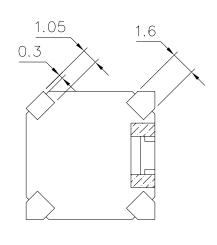
Standard Test Fixture

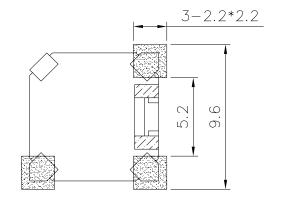


Frequency Response Curve







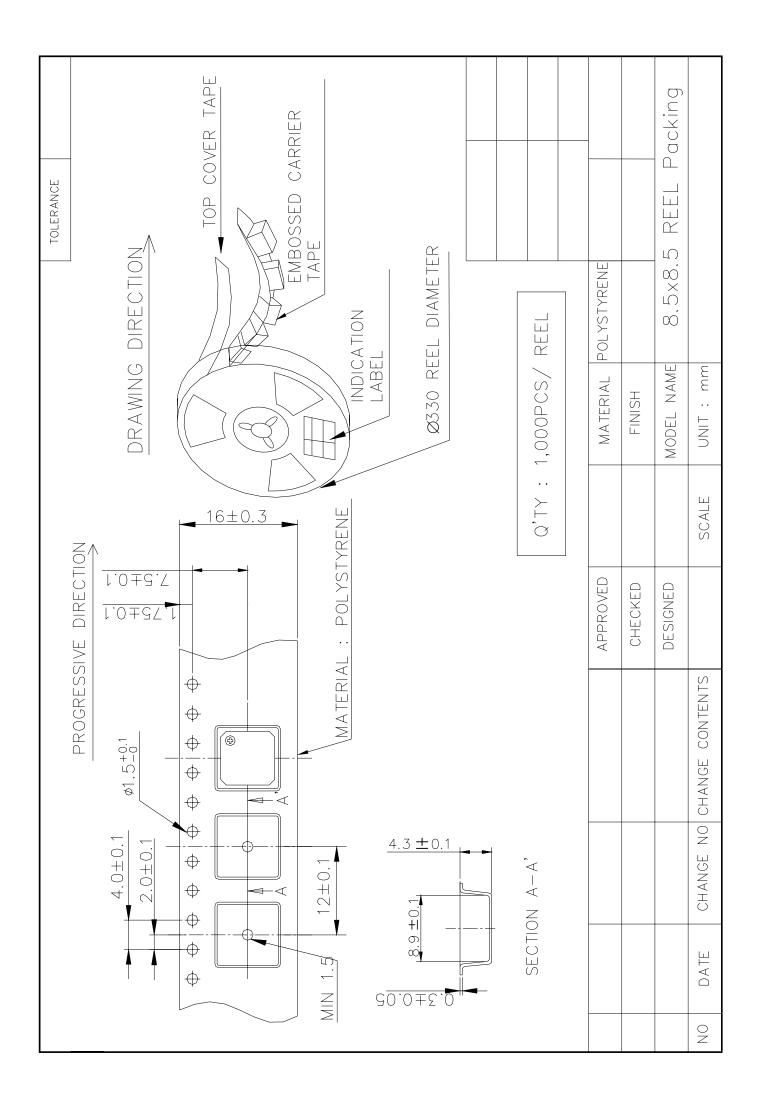


RECOMMENDED P.C.B LAYOUT

TITLE: SOUND TRANSDUCER (SMD)		DRAWN:	JOHN	10/28/2005	SCALE: 4:1	SHEET: 1	OF 1	
			DESIGNED:	R&D	OI AAI	011116.	mm	
PART NO.	AD-8504-LQ2-LF	1	CHECKED:			TOLERANCE UNLESS OTH		CIFIED:
DWG NO.			APPROVAL:			ONE PLACE	$DECIMAL \pm$	***
<i>D</i> 110.	DTD-2003		MATERIAL:	LCP	1	$ullet$ TWO PLACE DECIMAL \pm THREE PLACE DECIMAL		
					_			



蓝翔科技股份有限公司 ADVANCED ACOUSTIC TECHNOLOGY CORPORATION



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.	
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;	After the test the part shall meet specifications without
04	Temp./Humidity cycle	The part shall be subjected 10 cycles. One cycle shall be 12 hours and consist of;	Any degradation in appearance and performance except S.P.L S.P.L shall be 77dB or more.
05	Operating life	 Rated Voltage, Frequency applied. 1. Ordinary temperature The part shall be subjected to 1000 hours at room tremperature (25 ±10°C) 1. High temperature The part shall be subjected to 500 hours at 85°C 2. Low temperature The part shall be subjected to 500 hours at -40°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.	
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)	

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 3 times in 3 axes (X.Y.Z). (a total of 9 times).	
10	Pull lead with a force of 10N,on the direction of the lead axis for 10:10±1 sec		
11	Washability	Solvent : deionized water Solvent temp. : 55±5°C Soaking time : 5±0.5 min.	

SOLDER ABILITY

Temperature profile for reflowable Buzzer .

