SPECIFICATION FOR APPROVAL

Product	MAGNETIC BUZZER (SMD)
Part No.	AD-8504-LQ4
Customer	
Approval	

Approved By	Checked By	Made By

A & B Components

http://www.speaker-tw.com



1.CHARACTER DATA

AD-8504-LQ4

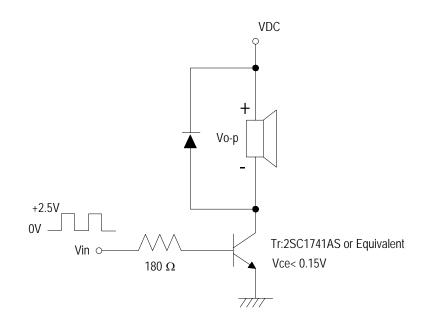
	Items	Units	Specifications	Conditions	
01	Rated Voltage	Vo-p	3.6	Vo-p	
02	Operating Voltage	Vo-p	2.5~4.5		
02	Concumption Current	mA	Mean 100		
03	Consumption Current	(max)	Peak 300	Standard State, Standard Drive Circuit.	
04	Sound Output	dB	90	Rated Voltage, Rated Frequency, Distance	
04		(min)		at 10 cm free air, Square Wave 1 / 2 Duty	
05	Rated Frequency	Hz	4000		
06	Coil Resistance	Ω	16 ± 3	At Basic State	
07	Operating Temp.	°C	-30 ~ +75		
08	Storage Temp.	°C	-40 ~ +85		
09	Weight	Gram	0.6		

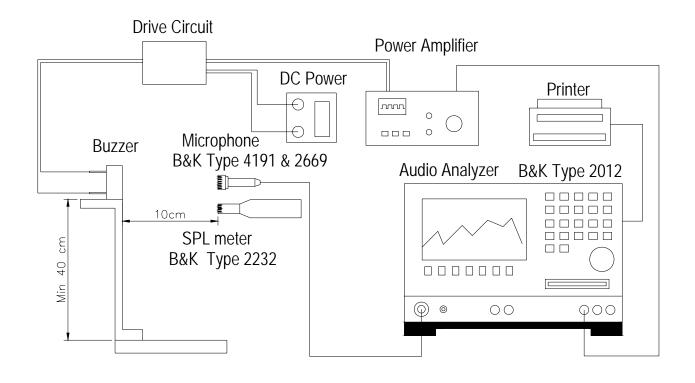
2.Test Condition STANDARD

Temperature : $15 \sim 35^{\circ}$ C Relative humidity : $25\% \sim 85\%$, Atmospheric pressure : 860mbar to 1060mbar. **BASIC** Temperature : $20\pm3^{\circ}$ C Relative humidity : $60\% \sim 70\%$,

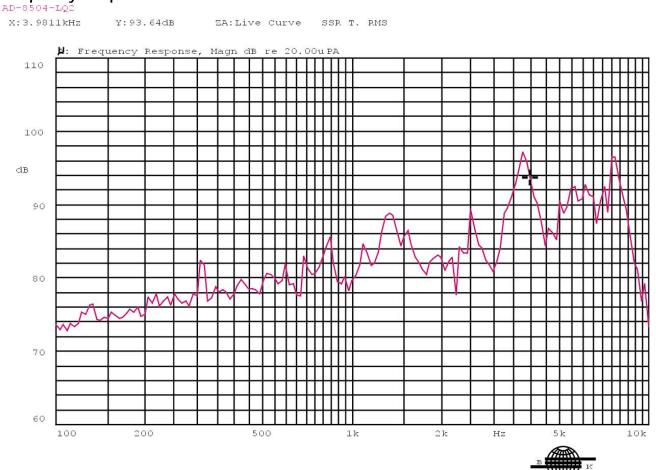
Atmospheric pressure : 860mbar to 1060mbar

Standard Drive Circuit





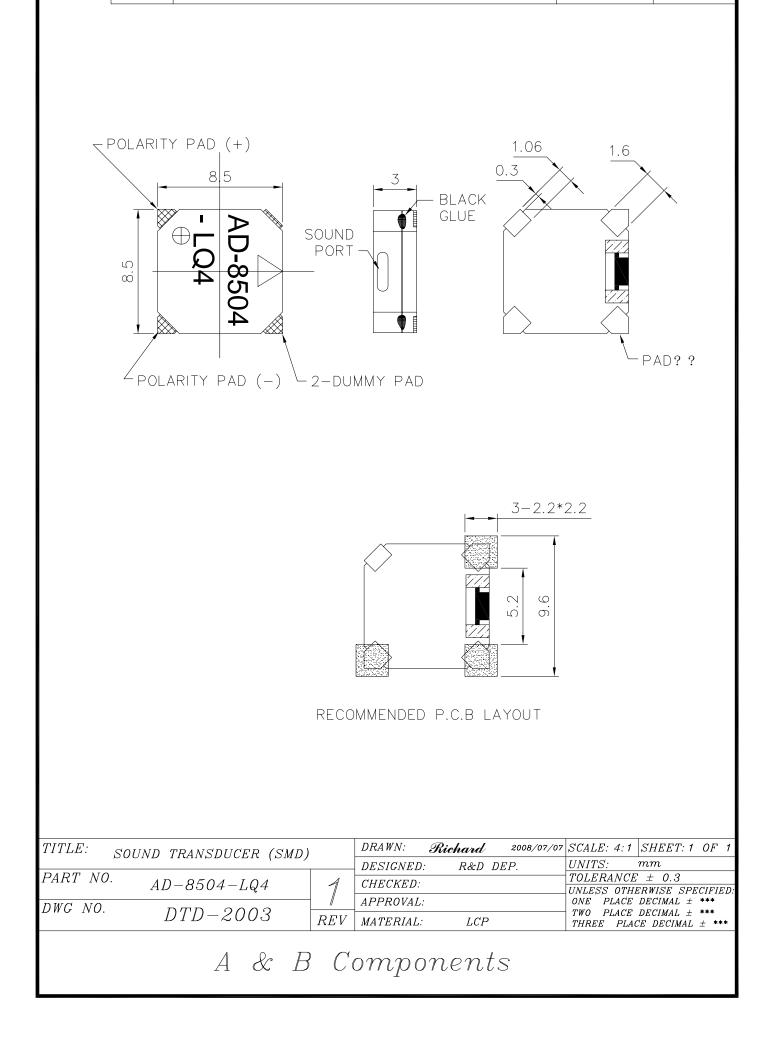
Frequency Response Curve



Mode: SSR

REV N	0.	

DATE



5.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	D2 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; $ \begin{array}{r} 85^{\circ}C \\ -40^{\circ}C \\ 30 \text{ min} \\ 60 \text{ min} \\ \end{array} $	After the test the part shall
04	Temp./Humidity cycle	The part shall be subjected 10 cycles. One cycle shall be 12 hours and consist of $90 \sim 95 \%$ RH $25^{\circ}C$ 0.5hr 6hrs 0.5hr 5hrs 0.5hr 5hrs	meet specifications without Any degradation in appearance and performance except S.P.L S.P.L shall be 82dB 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 75°C 2. Low temperature The part shall be subjected to 500 hours at -30°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	Lead strength	Pull lead with a force of 10N,on the direction of the lead axis for 10 :10 \pm 1 sec	

SOLDER ABILITY

Recommend temperature profile for lead-free solder.

