SPECIFICATION FOR APPROVAL

Product	MAGNETIC BUZZER (SMD)	
Part No.	Part No. AD-7504BA-1	
Customer		
Approval		

Approved By	Checked By	Made By

A & B Components



http://www.speaker-tw.com

AD-7504-BA1

FEATURES

Compact : rich sound magnetic buzzer. Applications : Mobile phone , PDA , pager etc.

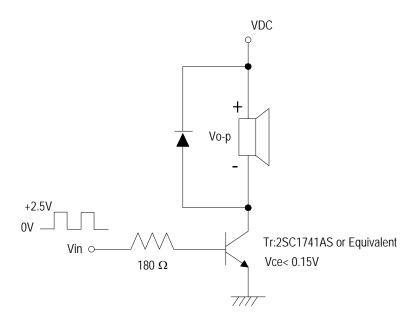
	Items	Units	Specifications	Conditions
01	Rated Voltage	Vo-p	3.6	Vo <u>-p</u>
02	Operating Voltage	Vo-p	3 ~ 4.5	
03	Consumption Current	mA (max)	100	Standard State, Standard Drive Circuit.
04	Sound Pressure Label	dB (min)	82	Rated Voltage, Distance at 10 cm free air 2700Hz, Square Wave 1 / 2 Duty
05	Resonant Frequency	Hz	2700	
06	Coil Resistance	Ω	15 ± 3	At Basic State
07	Operating Temp.	°C	-30 ~ +70	
08	Storage Temp.	°C	-40 ~ +80	
09	Dimension	mm	7.5 x 7.5 x 2.6	See attached drawing.
10	Weight	Gram	0.4	

Standard condition:

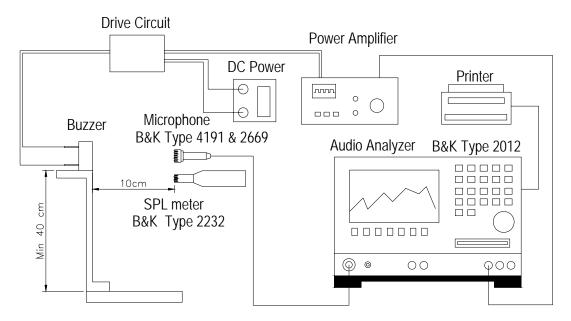
Ordinary Temp.($15 \sim 35^{\circ}$ C), Humidity($25 \sim 85$ %RH), Air Pressure($860 \sim 1060$ HPa) In case of doubtful judgment, the test is re-performed under basic state.

Basic State:

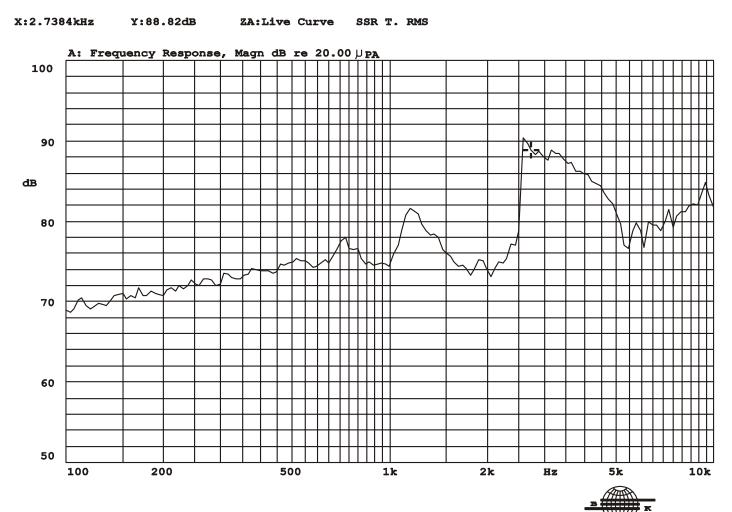
Temp.($20\pm 2^{\circ}$ C), Humidity($60\sim 70\%$ RH), Air Pressure($860\sim 1060$ HPa). Standard Drive Circuit:



Standard Test Fixture

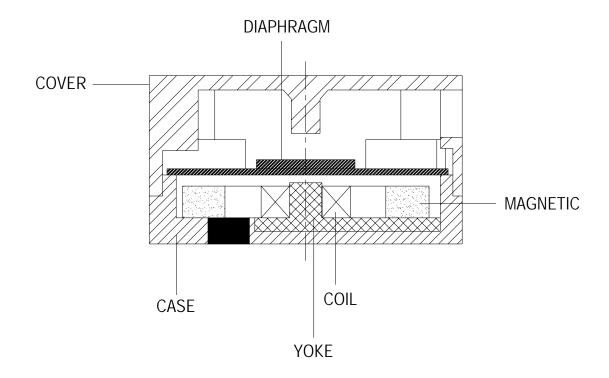


Frequency Response Curve



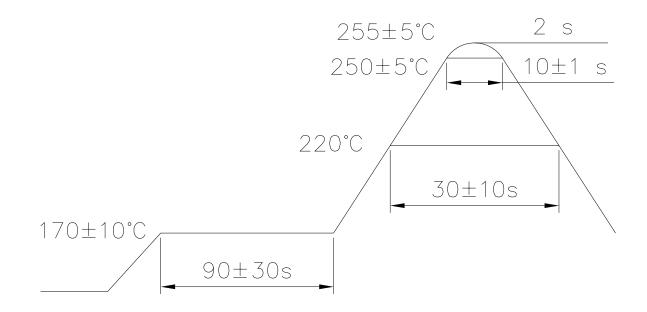
Mode: SSR

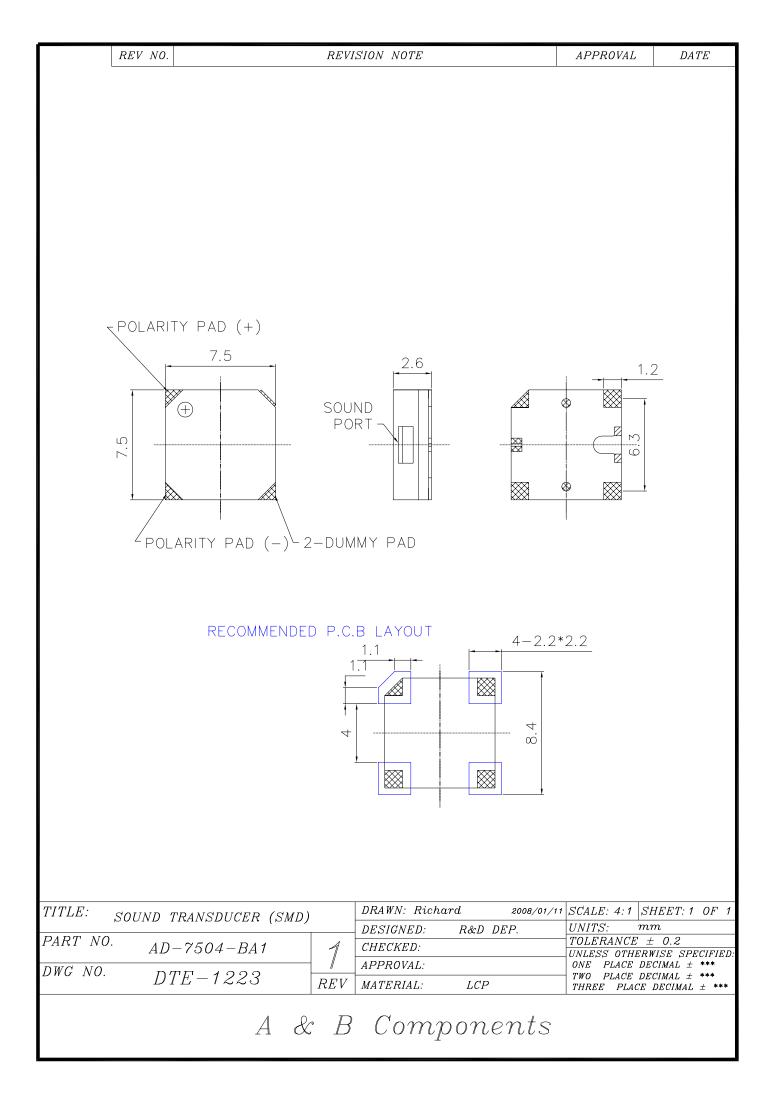
STRUCTURAL SPECIFICATION



SOLDER ABILITY

Temperature profile for reflowable Buzzer .





RELIABILITY TEST

Item		Test conditions	Evaluation standard
1	High temp storage life	The part shall be capable of withstanding the storage temperature of $+80^{\circ}$ C for 240 hours.	
2	Low temp storage life	The part shall be capable of withstanding the storage temperature of -40° C for 240 hours.	After the test, the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall be 77 or more
3	Temp. cycle	The part shall be subjected to 5 cycles one cycle shall consist of -40° C 30min 30min 60min	
4	Temp./ Humidity cycle	The part shall be subjected to 10cycle One cycle shall be 24 hours and consist of $60^{\circ} C$ $25^{\circ} C$ $10^{\circ} C$ 4.25×25 125×25 125 125 10° 10° $4.8, D, E, G, H, J:90 \sim 98\% RH$ C, F :80 ~ 98% RH	
5	Operating life	Driving the sounder at $25\pm10^{\circ}$ for 240hrs. Input Rated Voltage and Frequency.	
6	High temp.	The part shall be subjected to 240 hours at +85°C Input Rated Voltage and Frequency.	
7	Low temp.	The part shall be subjected to 240 hours at -40°C Input Rated Voltage and Frequency.	
8	Vibration	10~55Hz 1.5mm 55~150Hz 5G 10~200~10Hz 15minutes X,Y,Z,3directions 2h/direction.	
9	Fixed drop	The part mounted on an exclusive fixture(115g) shall be dropped 5 times from a height of 152cm onto concrete in each of 6 different axes(total 6 times)	
10	Free drop	The part shall be dropped freely from a height of 100cm onto concrete 1 time in 6 axes.(total 6 time)	
11	Solder ability	The part leads shall be immersed in molten solder maintained at $235\pm5^{\circ}$ for a period of 2.0 ± 0.5 seconds	Ninety-five percent(95%) coverage with a continuous coating of bright new solder
12	Strength of Terminal	It shall be more than 10N in the vertical direction of terminal in the state that 4 terminals are soldered on PCB	Same as items of No. 1 to No. 10