SPECIFICATION FOR APPROVAL

Product	MAGNETIC BUZZER	
Part No.	AD-5003-PQ1	
Customer		
Approval		

Approved By	Checked By	Made By

A & B Components



http://www.speaker-tw.com

1.SPECIFICATION

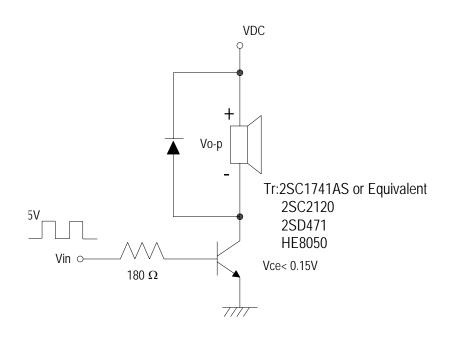
	Items	Units	Specifications	Conditions	
01	Rated Voltage	Vo-p	3.0	Vo <u>-p</u>	
02	Operating Voltage	Vo-p	2.0 ~ 5.0		
03	Consumption Current	mA	Mean 100		
03	Consumption Current	(max)	Peak 300	Standard State, Standard Drive Circuit.	
04	Sound Output	dB	75	Rated Voltage, Rated Frequency, Distance	
04	Sound Output	(min)		at 10 cm free air, Square Wave 1 / 2 Duty	
05	Resonant Frequency	Hz	4000		
06	Coil Resistance	Ω	12 ± 2	At Basic State	
07	Operating Temp.	°C	-30 ~ +75		
08	Storage Temp.	°C	-40 ~ +85		
09	Weight	Gram	0.3		

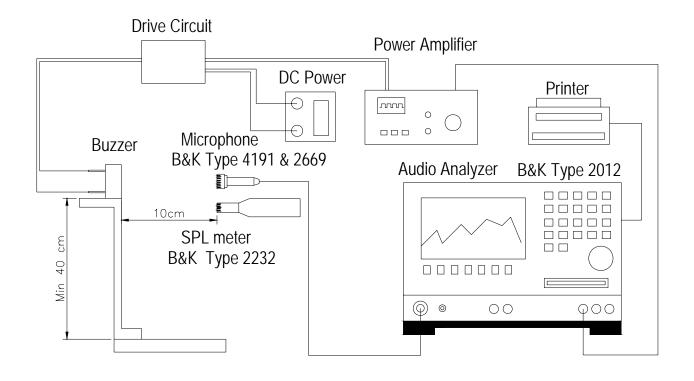
2.Test Condition STANDARD

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

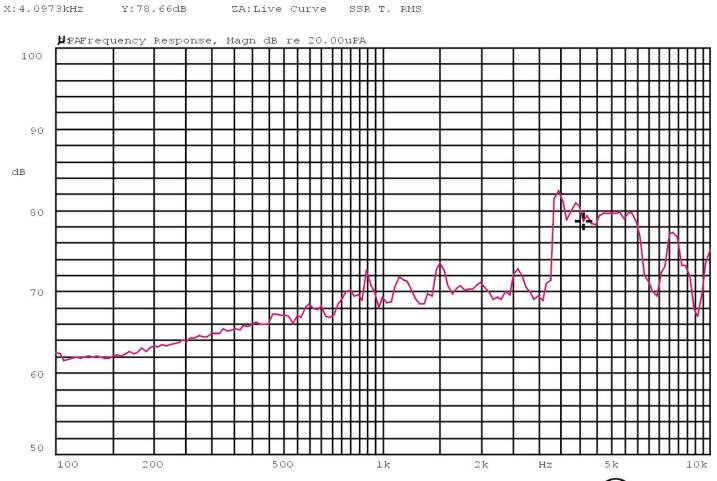
Temperature : 20±3°C Relative humidity : 60% ~ 70%, Atmospheric pressure : 860mbar to 1060mbar

Standard Drive Circuit





Frequency Response Curve





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	SOUND TRANSDUCER (SMD))	DRAWN: Ru DESIGNED:	chard 2007/08 R&D DEP.	/23 SCALE: 4:1 SHI UNITS: mm	,
PART NO.	AD-5003-PQ2	1	CHECKED:		TOLERANCE ± UNLESS OTHERWI	SE SPECIFIED:
DWG NO.	DTE-1070	REV	APPROVAL: MATERIAL:	LCP	ONE PLACE DECH TWO PLACE DECH THREE PLACE D	MAL ± ***
			1		HINGE PLACE D.	GOIMAL 1 ***
	A &	B	Comp	onents		
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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	Low temp.Storage life		
03	Temp. cycle	The part shall be subjected 10 cycles. One cycle shall consist of; -40°C 30 min 60 min	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 0.5hr 0.5hr 5hrs	meet specifications without Any degradation in appearance and performance except S.P.L S.P.L shall be 78dB 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±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 .

