# SPECIFICATION FOR APPROVAL

Product	MAGNETIC BUZZER	
Part No.	AC-1403G	
Customer		
Approval		

Approved By	Checked By	Made By

### A & B Components

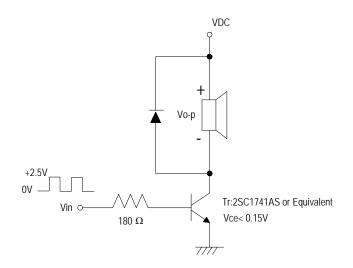


http://www.speaker-tw.com

### AC-1403G

	Items	Units	Specifications			Conditions	
01	Rated Voltage	Vo-p	3.0			V <u>o-p</u> VO-p VO-p VO-D	
02	Operating Voltage	Vo-p	2.	0~4.0			
03	Mean Current	mA (Max)	35			Applying rated voltage, rated frequency Square wave,1/2 duty subject to standard state.	
04	Direct Current Resistance	Ohm	40±6				
05	Sound Output	dBA (min)	85			Distance at 10cm, applying rated voltage, rated frequency square wave, 1/2duty subject to standard state.	
06	Rated Frequency	Hz	2000				
07	Operating Temp.	°C	-40 ~ +85				
08	Storage Temp.	°C	-50 ~ +95				
09	Dimension	mm	Φ 14	Height	5	See attached drawing.	
10	Weight	Gram	2				
11	Terminal		Two Pins			See attached drawing.	

Standard Drive Circuit:



**\***Standard Conditions:

Temperature  $15 \sim 35^{\circ}$ C

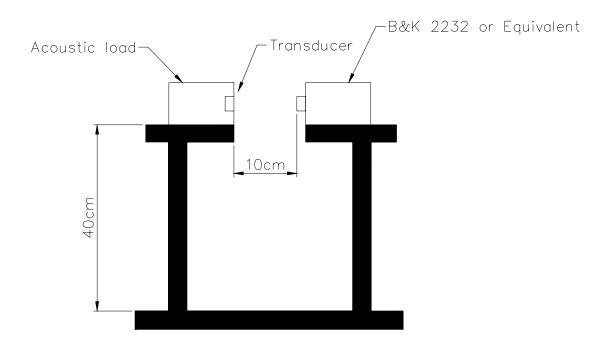
Humidity 25 ~ 80 %

Air pressure 860 ~ 1060 HPa.

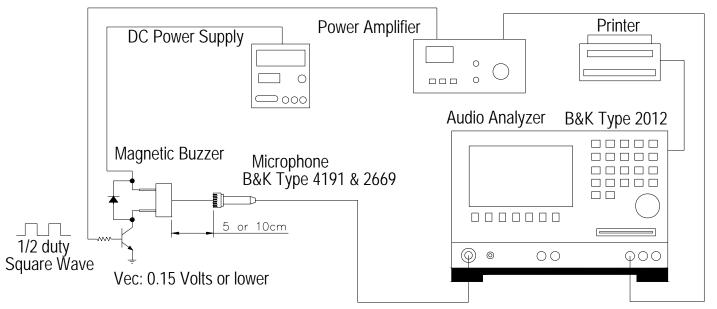
If the result is doubtful, should retested with the conditions below: Temp.  $20\pm2^{\circ}$ C, Humidity 60 ~ 70 %, Air pressure 860 ~ 1060 HPa.

Note: As this product is not protected from foreign material entering, please make sure that any foreign materials(e.g. magnetic powder, washing solved, flux, corrosive gas)do not enter this product in your production processes. The functional degradation(e.g. SPL down)may occur if foreign material enter it.

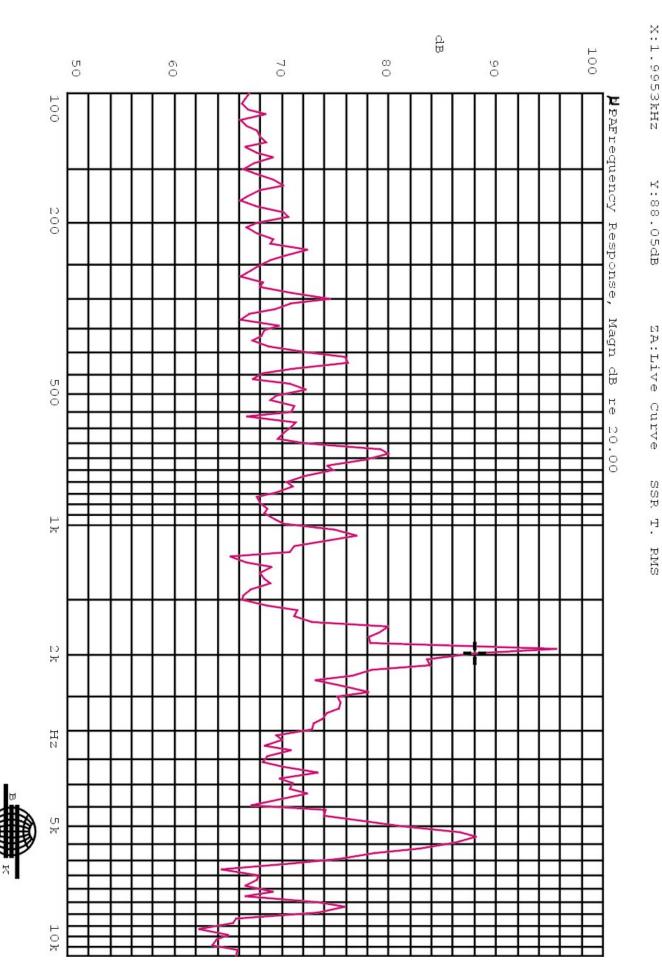
### STANDARD TEST FIXTURE



### Standard test condition of magnetic buzzer



Mode: SSR



AC-1403G

Y:88.05dB ZA:Live Curve SSR T. RMS

REV NO.	REVISION NOTE	APPROVAL	DATE
	0.		7.6±0.2
	WAVE SOLDER AND WASH NOT	ALLOWED	
PART NO.	A & B Components	UNITS: mm TOLERANCE ± UNLESS OTHERW. ONE PLACE DEC TWO PLACE DEC THREE PLACE D	1 0.5 ISE SPECIFIED: IMAL ± *** IMAL ± ***

### AC-1403G

# **RELIABILITY TEST**

	Item	Test conditions	Evaluation standard		
01	High temp. Storage life	The part shall be capable of withstanding a storage Temperature of $95^{\circ}$ for 96 hours.			
02	Low temp. Storage life	The part shall be capable of withstanding a storage Temperature of $-50^{\circ}$ C for 96 hours.			
03	Temp.cycle	The part shall be subjected 10 cycles. One cycle shall consist of; -50°C 95°C 30min 30min 60min	After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L		
04	Temp./Humidity cycle	The part shall be subjected 10 cycles. One cycle shall be 8 hours and consist of; 95°C 25°C a b c 2.5hrs 3.0hrs 2.5hrs a,b:90~98%RH c :80~98%RH	-S.P.L shall be 77dB or more.		

### AC-1403G

# **RELIABILITY TEST**

	Item	Test conditions	Evaluation standard	
05	VibrationThe part shall be subjected to a vibrati cycle of 10Hz to 55Hz to 10Hz in a pe 1 minute. Total peak amplitude shall b 1.52mm (9.3G). The vibration test sha consist of 2 hours per plane in each the mutually perpendicular planes for a to- time Of 6 hours.			
06	Fixed drop	The part shall be mounted on 100g jig(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)	After the test the part shall meet specifications without Any degradation and performance except S.P.L	
07	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).		
08	Operating life	<ol> <li>Ordinary temperature The part shall be subjected to 1000 hours at room temperature (25 ±10°C) with 3.0V,2000Hz applied.</li> <li>High temperature The part shall be subjected to 500 hours at 85°C with 3.0V, 2000Hz applied.</li> <li>Low temperature The part shall be subjected to 500 hours at -40°C with 3.0V, 2000Hz applied.</li> </ol>	S.P.L shall be 77dB or more.	