## SPECIFICATION FOR APPROVAL

Product	MAGNETIC BUZZER
Part No.	AS-1201C-RPA
Customer	
Approval	

Approved By	Checked By	Made By



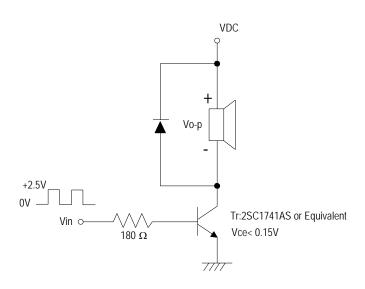
A & B Components

http://www.speaker-tw.com

## **AS-1201C-RPA**

	Items	Units	Specifications			3	Conditions	
01	Rated Voltage	Vo-p	1.5			V <sub>O-p</sub> 0V		
02	Operating Voltage	Vo-p	1~2					
03	Mean Current	mA (Max)	20			Applying rated voltage, rated frequency Square wave,1/2 duty subject to standard state.		
04	Direct Current Resistance	Ohm	50 ± 5					
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	2731					
07	Operating Temp.	$^{\circ}\mathbb{C}$	-40 ~ +85					
08	Storage Temp.	$^{\circ}\!\mathbb{C}$	-50 ~ +95					
09	Dimension	mm	Φ	12	Height	7.5	See attached drawing.	
10	Weight	Gram	2.0					
11	Terminal		NONE			See attached drawing.		

#### Standard Drive Circuit:



### Standard Conditions:

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

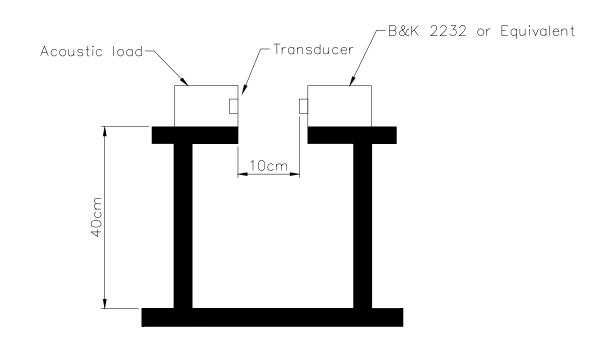
Humidity 25 ~ 80 %

Air pressure 860 ~ 1060 HPa.

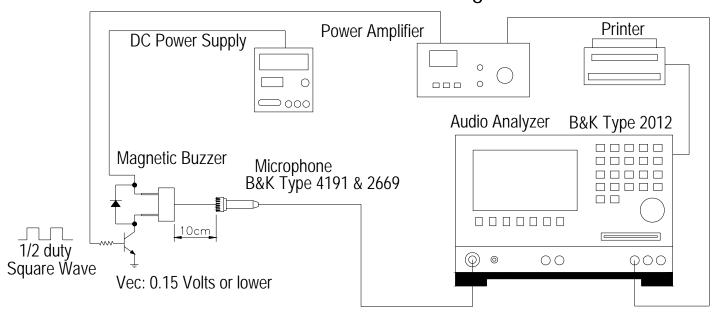
If the result is doubtful, should retested with the conditions below: Temp.  $20\pm2^{\circ}$ C, Humidity  $60 \sim 70 \%$ , Air pressure  $860 \sim 1060$  HPa.

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



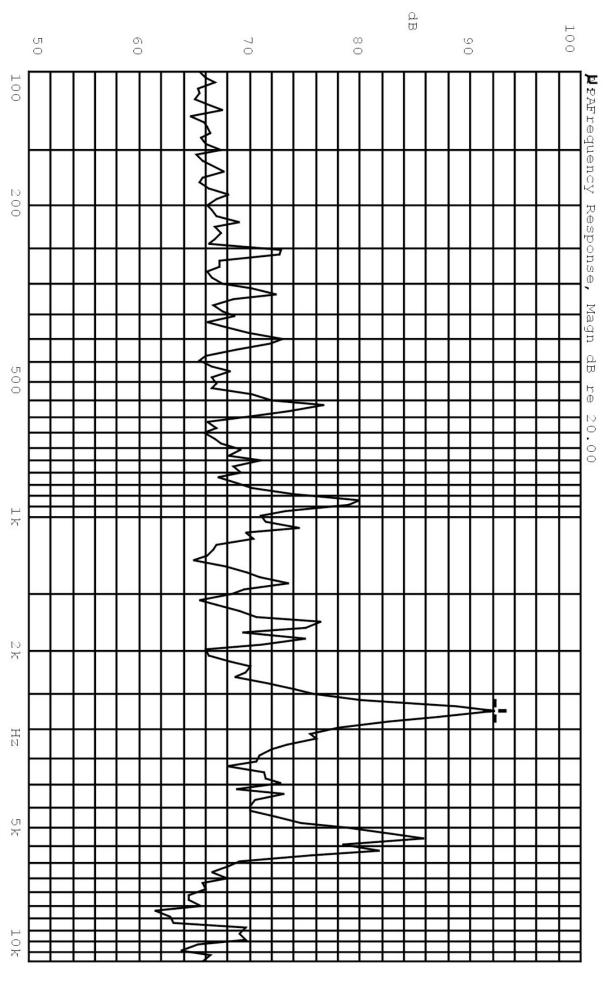
## Standard test condition of magnetic buzzer



Y:92.16dB

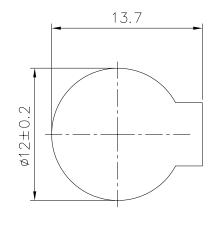
ZA: Live Curve

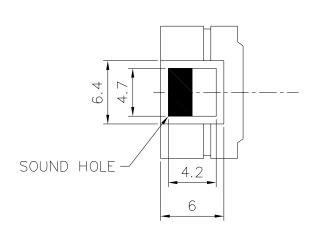
SSR T. RMS

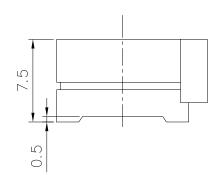


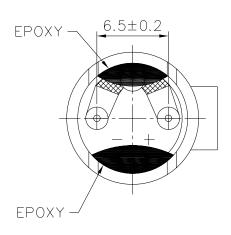
Mode: SSR

REV NO. REVISION NOTE APPROVAL DATE









SIONS	DRAWN:	Richard 06/19/2003	SCALE: 3/1 SHEET:1 OF 1
	DESIGNED:	R&D $DEP$ .	UNITS: mm
1	CHECKED:		$TOLERANCE \pm 0.3$ $UNLESS OTHERWISE SPECIFIED:$
/	APPROVAL:		ONE PLACE DECIMAL ± ***
REV	MATERIAL:	NORYL	TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***
	SIONS REV	DESIGNED:  CHECKED:  APPROVAL:	DESIGNED: R&D DEP.  CHECKED: APPROVAL:

A & B Components

# **RELIABILITY TEST**

## **AS-1201C-RPA**

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

# **RELIABILITY TEST**

## **AS-1201C-RPA**

Item		Test conditions	<b>Evaluation standard</b>	
05	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.		
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	
07	Free drop	without Any degrance and performance except S.P.L		
08	Operating life	<ol> <li>Ordinary temperature         The part shall be subjected to 1000 hours         at room temperature (25 ±10°C) with         1.5V, 2731Hz applied.         High temperature         The part shall be subjected to 500 hours         at 85°C with 1.5V, 2731Hz applied.     </li> <li>Low temperature         The part shall be subjected to 500 hours         at -40°C with 1.5V, 2731Hz applied.     </li> </ol>	S.P.L shall be 77dB or more.	