# SPECIFICATION FOR APPROVAL

Product	MAGNETIC BUZZER	
Part No.	AC-1001N-RPA	
Customer		
Approval		

Approved By	Checked By	Made By

# A & B Components

http://www.speaker-tw.com



#### 1. Specifications

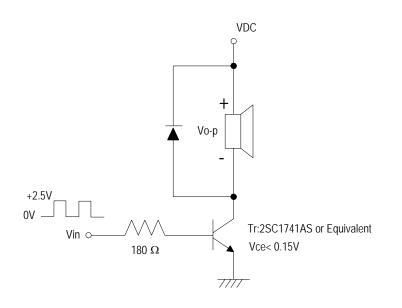
AC-1001N-RPA

1. •						
Items U		Units	Specifications	Conditions		
01	Rated Voltage	Vo-p	1.5	Vo-p Vo-p Vo-p VO-D		
02	Operating Voltage	Vo-p	1.0 ~ 3.0			
03 Comsur	Computing Current	mA (Max)	Mean 80.	Applying rated voltage, rated frequency		
	Comsumption Current		Peak 240	Square wave, 1/2 duty subject to standard state.		
04	Direct Current Resistance	Ohm	5.5±1			
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.	°C	-30 ~ +75			
08	Storage Temp.	°C	-40 ~ +85			
09	Weight	Gram	1.0			

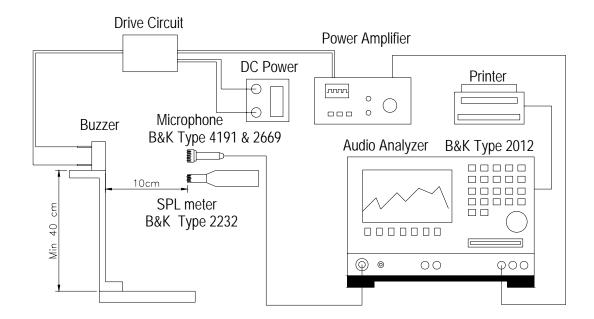
### 2. Measuring Method

2-1. Test Condition STANDARD Temperature : 15 ~ 35℃ Relative humidity : 25% ~ 85%, Atmospheric pressure : 860mbar to 1060mbar. JUDGEMENT Temperature : 20±3℃ Relative humidity : 60% ~ 70%, Atmospheric pressure : 860mbar to 1060mbar

#### 2-2. Standard Drive Circuit:



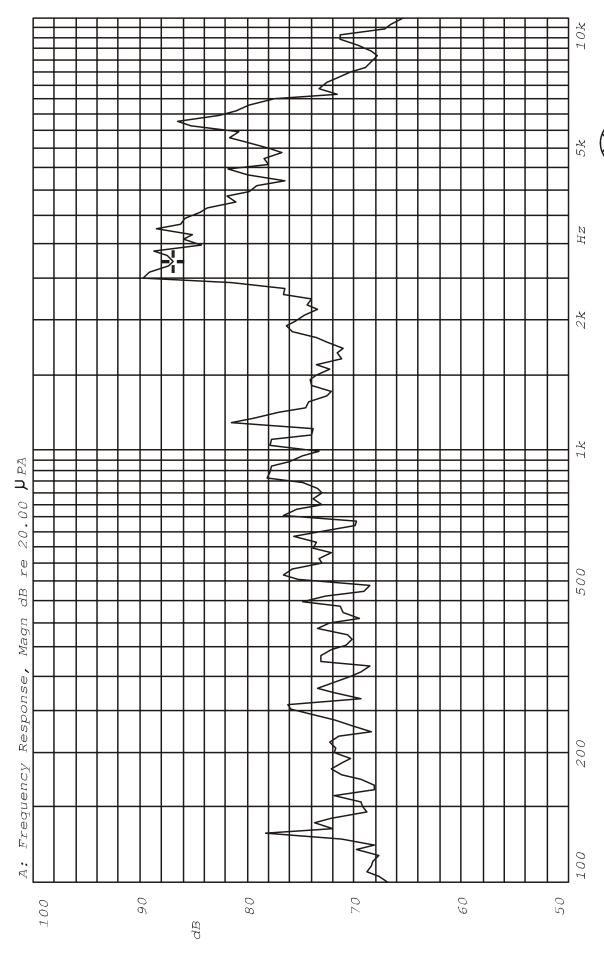
#### 2-3. Standard Test Fixture



2-4. Frequency Response Curve

X:2.7384kHz Y:86.94dB

B ZA:Live Curve SSR T. RMS



<sup>K</sup>

Mode: SSR

REV NO.	REVI,	SION NOTE		APPROVAL	DATE
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TITLE: SOUND TRANSDUC		DRAWN: <b>R</b> DESIGNED:	<b>ichard</b> 04/12/2001 R&D DEP.	SCALE: 3/1 SHI UNITS: mm	
PART NO. AC-1001N-	RPA 1	CHECKED:		TOLERANCE ± UNLESS OTHERWI	0.5 SE SPECIFIED:
DWG NO. $DTE-1$		APPROVAL: MATERIAL:	NORYL	ONE PLACE DECI TWO PLACE DECI THREE PLACE DI	MAL ± ***
	1 & R	Com	ponents		
	A & D	conq	JUILEILLS		

## 4. RELIABILITY TEST

	Item	Test conditions	Evaluation standard
01	High temp.Storage life	The part shall be capable of withstanding a storage Temperature of $85^{\circ}$ C for 96 hours.	
02	Low temp.Storage life	The part shall be capable of withstanding a storage Temperature of -40 $^\circ\!\mathrm{C}$ for 96 hours.	
03	Temp. cycle	The part shall be subjected 10 cycles. One cycle shall consist of; -40°C 85°C 30min 30min 60min	After the test the part shall meet specifications without Any degradation in appearance
04	Temp./Humidity cycle	The part shall be subjected 10 cycles. One cycle shall be 12 hours and consist of; $90 \sim 95 \% \text{ RH}$ $25^{\circ}\text{C}$ 0.5hr 6hrs 0.5hr 5hrs	Any degradation in appearance and performance except S.P.L S.P.L shall be 74dB or more.
05	Operating life	<ul> <li>Rated Voltage, Frequency applied.</li> <li>1. Ordinary temperature <ul> <li>The part shall be subjected to 1000 hours at room</li> <li>tremperature (25 ±10°C)</li> </ul> </li> <li>1. High temperature <ul> <li>The part shall be subjected to 500 hours at 85°C</li> </ul> </li> <li>2. Low temperature <ul> <li>The part shall be subjected to 500 hours at -40°C</li> </ul> </li> </ul>	
06	Lead Strength	Pull load on the direction of the lead axis for 10 $\pm$ 1 sec.	
07	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.	

Item		Test conditions	Evaluation standard		
08	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)	After the test the part shall		
09	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).	meet specifications without Any degradation in appearance and performance except S.P.L		
10	Solder heat resistance	Soldering into solderbath : $350\pm5^{\circ}C$ Soaking time : $3.5\pm0.5$ sec	S.P.L shall be 65 dB or more.		
11	Solder ability	Soldering : 250±5°C / 5 Sec. 350±5°C / 1.5 Sec Soldering t into solderbath : 250±5°C / 2 Sec.			
12	Lead strength	Pull lead with a force of 10N,on the direction of the lead axis for 10 :10±1 sec			
13	Washability	Solvent : deionized water Solvent temp. : $55\pm5^{\circ}$ C Soaking time : $5\pm0.5$ min.			