SPECIFICATION FOR APPROVAL

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

Approved By	Checked By	Made By



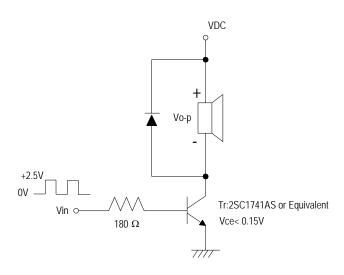
A & B Components

http://www.speaker-tw.com

AS-1001N-RPA

Items Ur		Units	Specifications		S	Conditions	
01	Rated Voltage	Vo-p	1.5			Vo-p 0V	
02	Operating Voltage	Vo-p	1.	0~3.0			
03	Mean Current	mA (Max)	80			Applying rated voltage, rated frequency Square wave,1/2 duty subject to standard state.	
04	Direct Current Resistance	Ohm	5.5±1				
05	Sound Output	dBA (min)	88			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	Ф9.6	Height	6.8	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

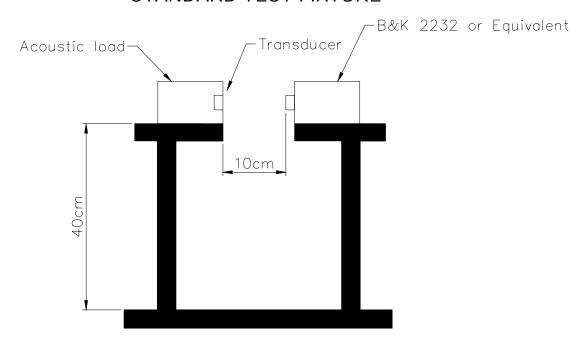
Humidity 25 ~ 80 %

Air pressure 860 ~ 1060 HPa.

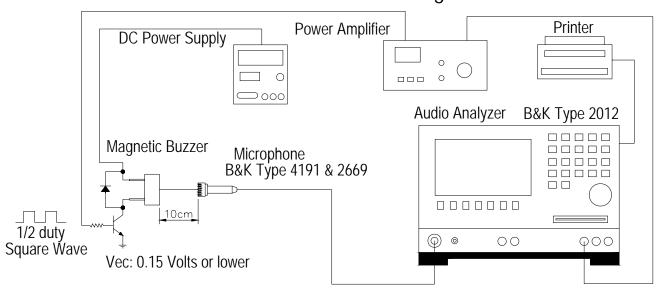
If the result is doubtful, should retested with the conditions below: Temp. $20\pm2^{\circ}$ C, Humidity $60 \sim 70 \%$, Air pressure $860 \sim 1060$ HPa.

*Note: As this product is not protected from foreign material entering, please make sure that any foreign materials(e.g. magnetic powder, washing solvend, 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

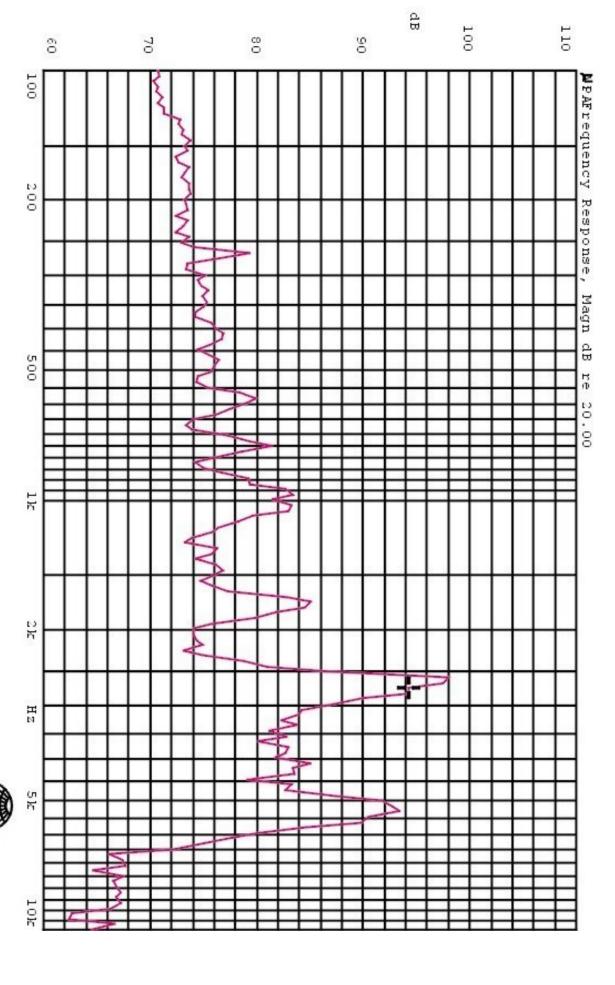


X:2.7384kHz

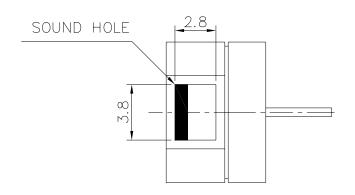
Y:94.22dB

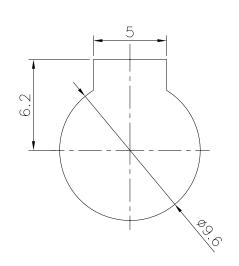
ZA:Live Curve

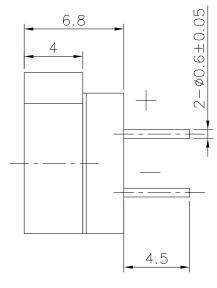
SSR T. RMS

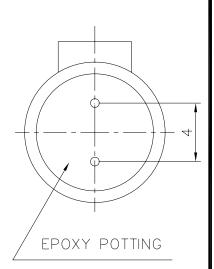


Mode: SSR









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I	TITLE:	SOUND TRANSDUC	r_{FR}	DRAWN:	Richard 11/11/2003	SCALE: 4:1 SHEET: 1 of 1
l		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		DESIGNED:	R&D DEP.	UNITS: mm
ı	PART NO.	AS-1001N-RPA	1	CHECKED:		$TOLERANCE \pm 0.2$ UNLESS OTHERWISE SPECIFIED:
ŀ	DWG NO.	D. III	/	APPROVAL:		ONE PLACE DECIMAL ± ***
ı	DNO 110.	DTE-2069	REV	MATERIAL:	NORYL	TWO $PLACE$ $DECIMAL$ \pm *** $THREE$ $PLACE$ $DECIMAL$ \pm ***
-						

A & B Components

AS-1001N-RPA

RELIABILITY TEST

	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 degradation in appearance and performance except S.P.L S.P.L shall be 81dB or more.
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; -50°C 95°C 30min 60min	
04	Temp./Humidity	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	

AS-1001N-RPA

RELIABILITY TEST

Item		Test conditions	Evaluation standard
cycle of 10Hz to 55Hz to 10Hz in a per 1 minute. Total peak amplitude shall be 1.52mm (9.3G). The vibration test shall consist of 2 hours per plane in each three consists of 2 hours per plane in each three cycles of 10Hz to 55Hz to 10Hz in a per 1 minute. Total peak amplitude shall be 1.52mm (9.3G). The vibration test shall consist of 2 hours per plane in each three cycles of 10Hz to 55Hz to 10Hz in a per 1 minute. Total peak amplitude shall be 1.52mm (9.3G). The vibration test shall be 1.52mm (9.3G).			
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	1. Ordinary temperature The part shall be subjected to 1000 hours at room temperature (25 ±10°C) with 1.5V,2731Hz applied. 2. High temperature The part shall be subjected to 500 hours at 85°C with 1.5V, 2731Hz applied. 3. Low temperature The part shall be subjected to 500 hours at -40°C with 1.5V, 2731Hz applied.		S.P.L shall be 81dB or more.