
SPECIFICATION FOR APPROVAL

Product	MAGNETIC BUZZER
Part No.	AS-1204B-P2
Customer Approval	

Approved By	Checked By	Made By

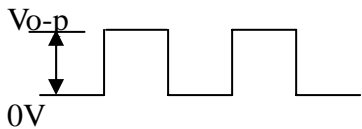


A & B Components

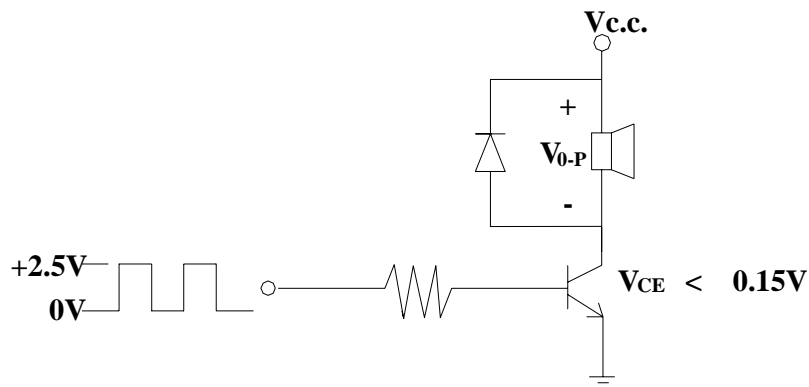
<http://www.speaker-tw.com>

File Name:

AS-1204B-P2

Items		Units	Specifications			Conditions	
01	Rated Voltage	Vo-p	3.5				
02	Operating Voltage	Vo-p	2.0~5.0				
03	Mean Current	mA (Max)	30			Applying rated voltage, rated frequency Square wave, 1/2 duty subject to standard state.	
04	Direct Current Resistance	Ohm	42± 6				
05	Sound Output	dBa (min)	75			Distance at 10cm, applying rated voltage, rated frequency square wave, 1/2 duty subject to standard state.	
06	Rated Frequency	Hz	2048				
07	Operating Temp.	°C	-40 ~ +85				
08	Storage Temp.	°C	-50 ~ +95				
09	Dimension	mm	Φ	12	Height	5.5	See attached drawing.
10	Weight	Gram	2.0				
11	Terminal		Two Crook Pins			See attached drawing.	

※Standard Drive Circuit:



※Standard Conditions:

Temperature 15 ~ 35°C

Humidity 25 ~ 80 %

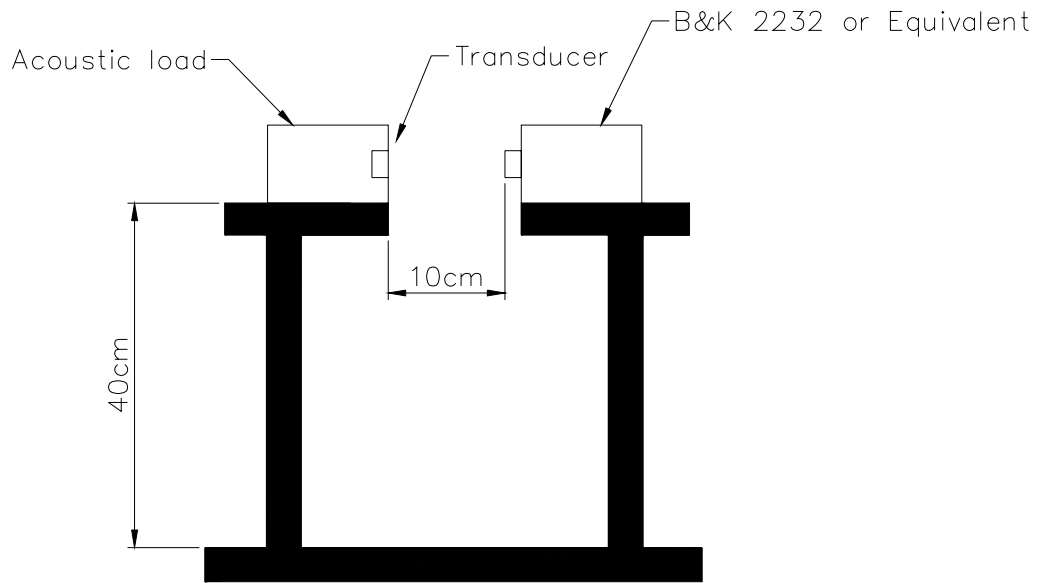
Air pressure 860 ~ 1060 HPa.

If the result is doubtful, should retested with the conditions below: Temp. 20±2°C, Humidity 60 ~ 70 %, Air pressure 860 ~ 1060 HPa.

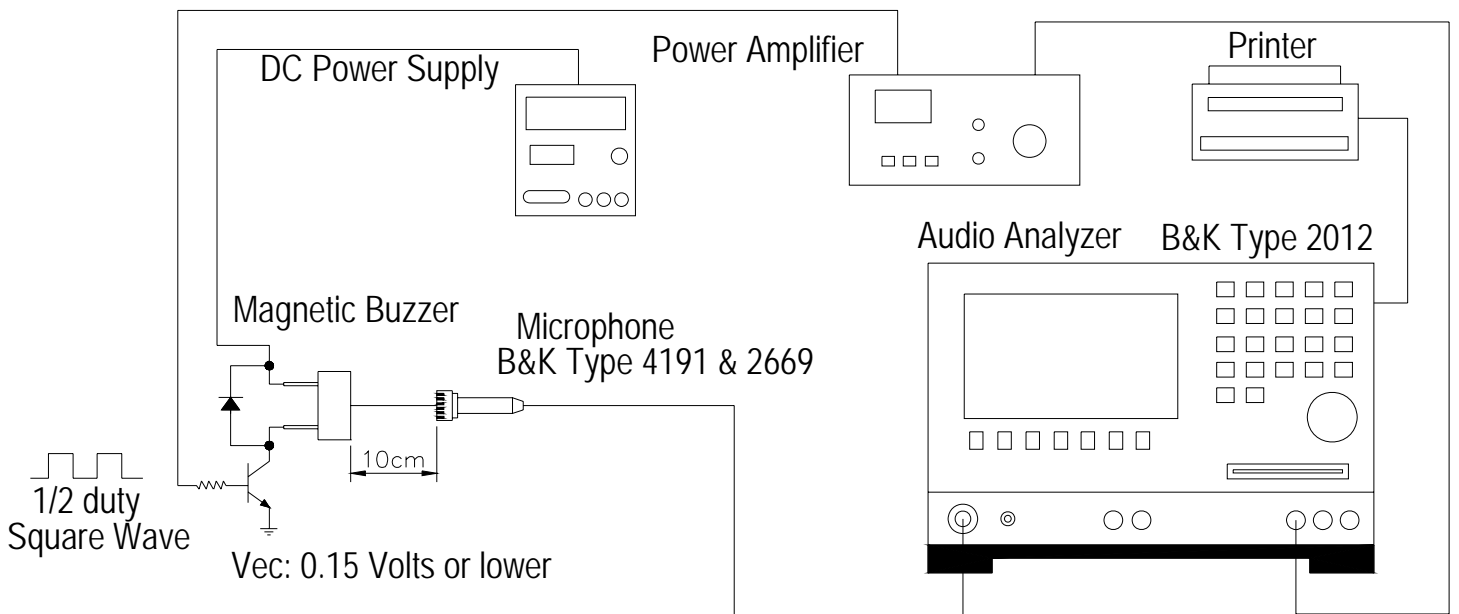
Air pressure 860 ~ 1060 HPa.

※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.

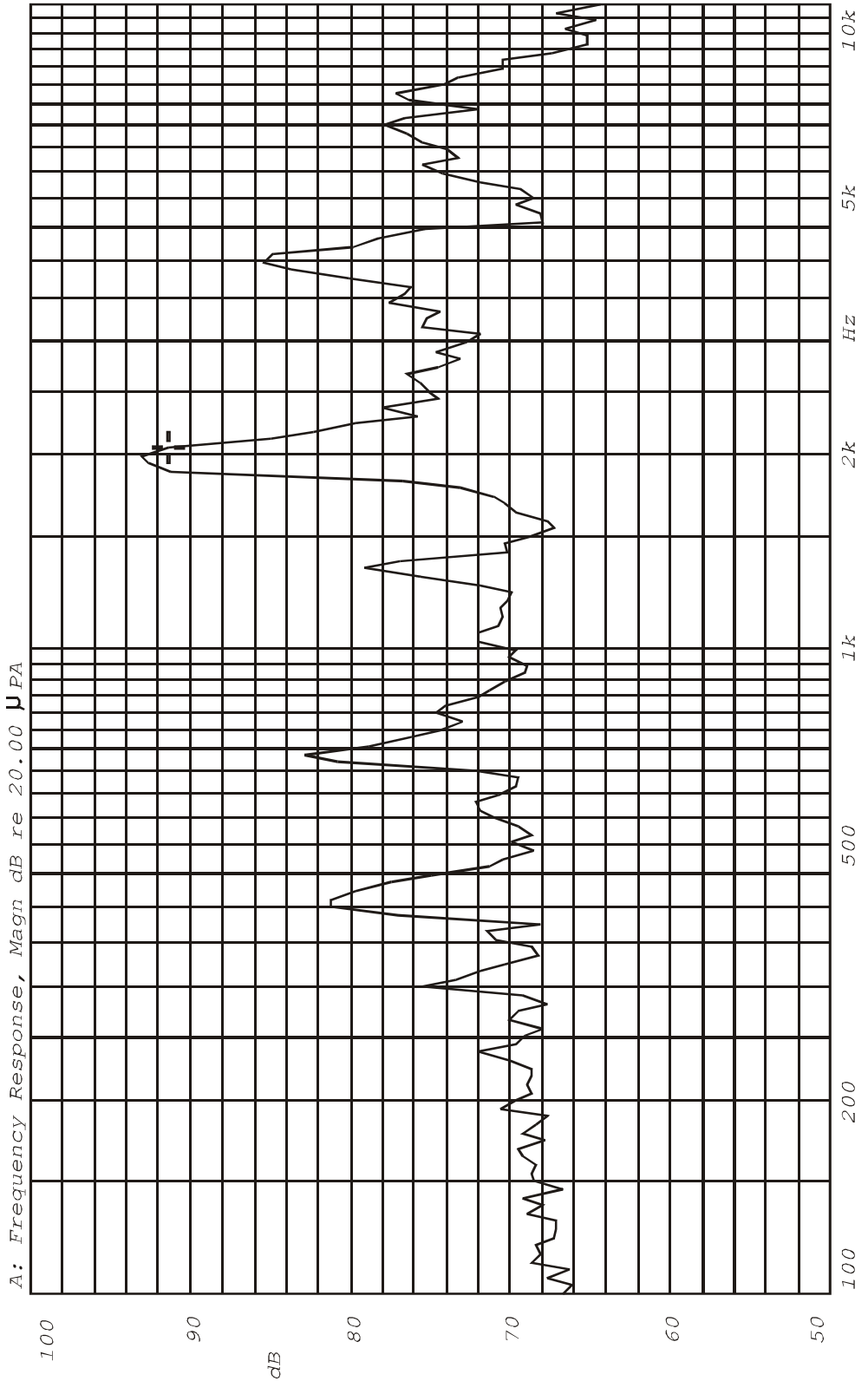
STANDARD TEST FIXTURE



Standard test condition of magnetic buzzer



X:2.0535kHz Y:91.43dB ZA:Live Curve SSR T. RMS



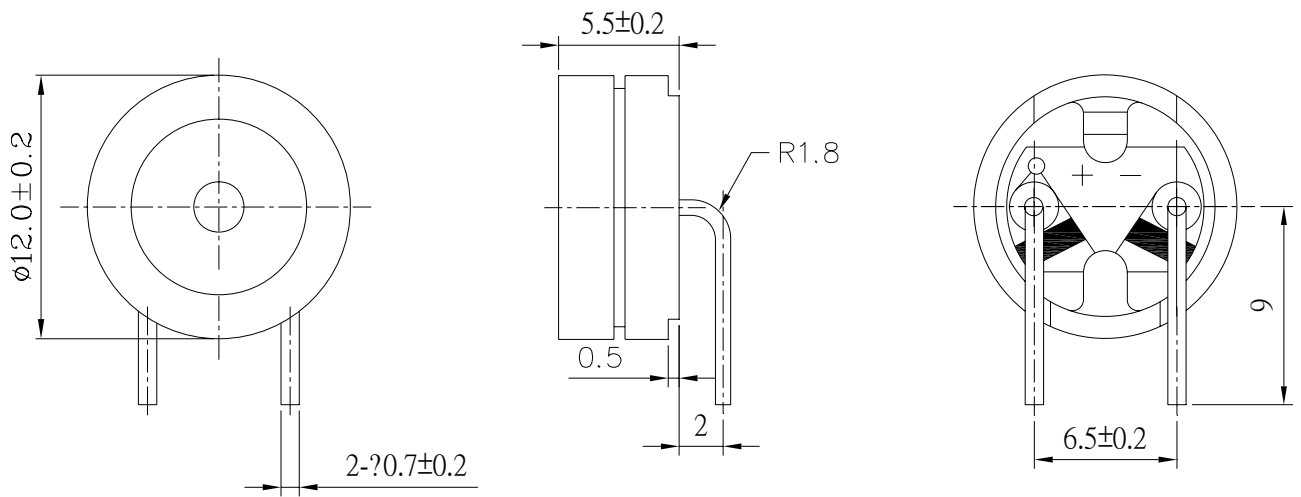
Mode: SSR

REV NO.

REVISION NOTE

APPROVAL

DATE

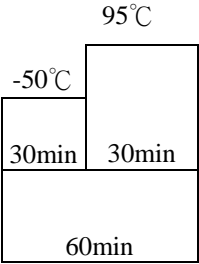
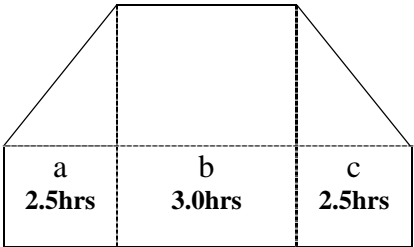


TITLE: SOUND TRANSDUCER DIMENSIONS		DRAWN: <i>Richard</i> 02/07/2002	SCALE: 3/1	SHEET: 1 OF 1
PART NO. AS-1204B-P2	1	DESIGNED: R&D DEP.	UNITS: mm	
DWG NO. DTE-2026		CHECKED:	TOLERANCE ± 0.5	
REV		APPROVAL:	UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL \pm *** TWO PLACE DECIMAL \pm *** THREE PLACE DECIMAL \pm ***	
		MATERIAL: NORYL		

A & B Components

RELIABILITY TEST

AS-1204B-P2

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 67dB 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; <div style="text-align: center;">  <p>The diagram shows a rectangular cycle. The bottom edge is labeled '60min'. The left vertical edge is labeled '-50°C' and the right vertical edge is labeled '95°C'. The bottom-left corner is labeled '30min' and the bottom-right corner is labeled '30min'.</p> </div>	
04 Temp./Humidity cycle	The part shall be subjected 10 cycles. One cycle shall be 8 hours and consist of; <div style="text-align: center;">  <p>The diagram shows a trapezoidal cycle. The top horizontal edge is labeled '95°C' and the bottom horizontal edge is labeled '25°C'. The cycle is divided into three segments: 'a' (2.5hrs), 'b' (3.0hrs), and 'c' (2.5hrs). Below the diagram, the humidity levels are specified: 'a,b:90~98%RH' and 'c :80~98%RH'.</p> </div>	

RELIABILITY TEST

AS-1204B-P2

Item	Test conditions	Evaluation standard
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.	After the test the part shall meet specifications without Any degrance and performance except S.P.L S.P.L shall be 67dB or more.
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)	
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 style="list-style-type: none">1. Ordinary temperature The part shall be subjected to 1000 hours at room temperature ($25 \pm 10^{\circ}\text{C}$) with 3.5V 2048Hz applied.2. High temperature The part shall be subjected to 500 hours at 85°C with 3.5V, 2048Hz applied.3. Low temperature The part shall be subjected to 500 hours at -40°C with 3.5V, 2048Hz applied.	