
SPECIFICATION FOR APPROVAL

Product	MAGNETIC BUZZER INDICATOR
Part No.	AD-1005S-BM1
Customer Approval	

Approved By	Checked By	Made By



A & B Components

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

1. SPECIFICATION

AD-1005S-BM1

ITEM		UNITS	SPECIFICATIONS	CONDITIONS
01	Rated Voltage	V	5	
02	Operating Voltage	V	3 ~ 8	
03	Rated Current	mA (Max)	30	Rated Voltage
04	Sound pressure level	dBA (Min)	80	Distance at 10cm
05	Resonant Frequency	Hz	2700± 200	
06	Operating Temp.	°C	-20 ~ +70	
07	Storage Temp.	°C	-30 ~ +85	
08	Weight	g	1.0	Frequency response times: ≥ 100 ms

2. MEASURING METHOD

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 25% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

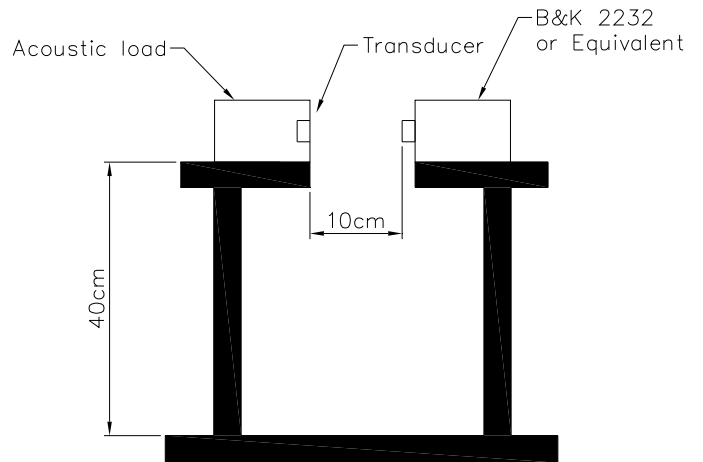
JUDGEMENT

Temperature : 20±3°C

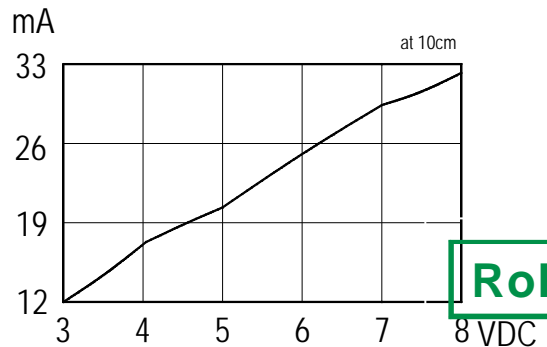
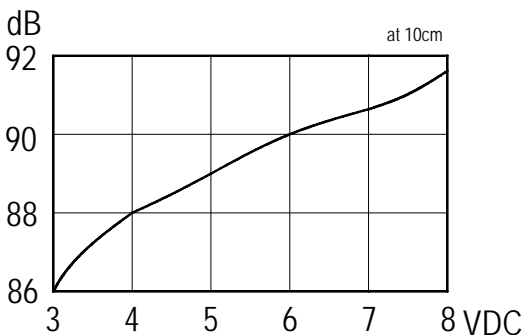
Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

2-2. Standard Test Fixture

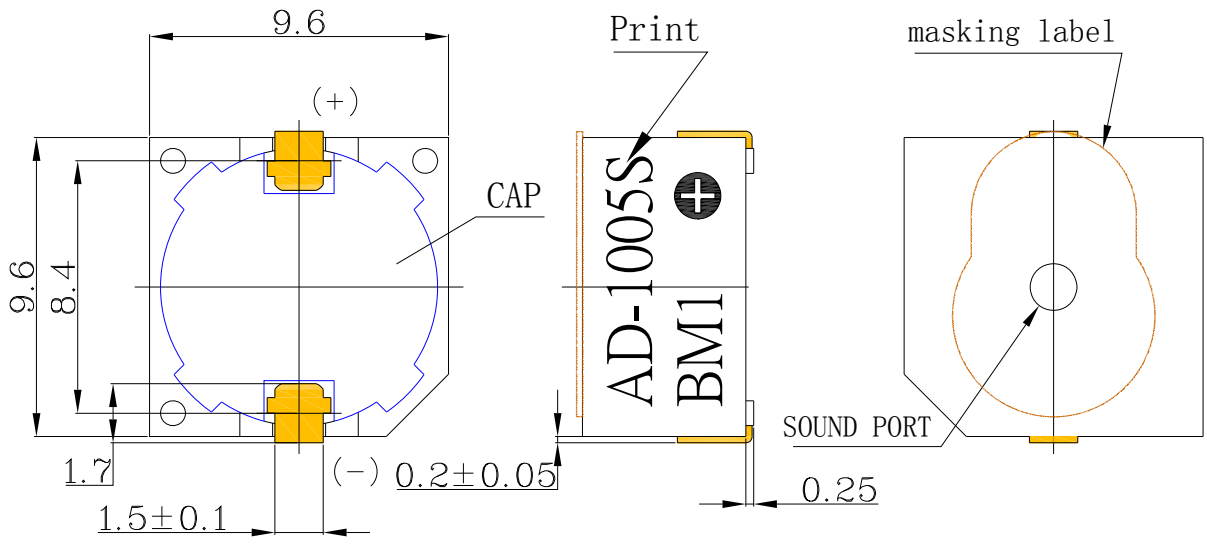


2-3. Frequency Response Curve

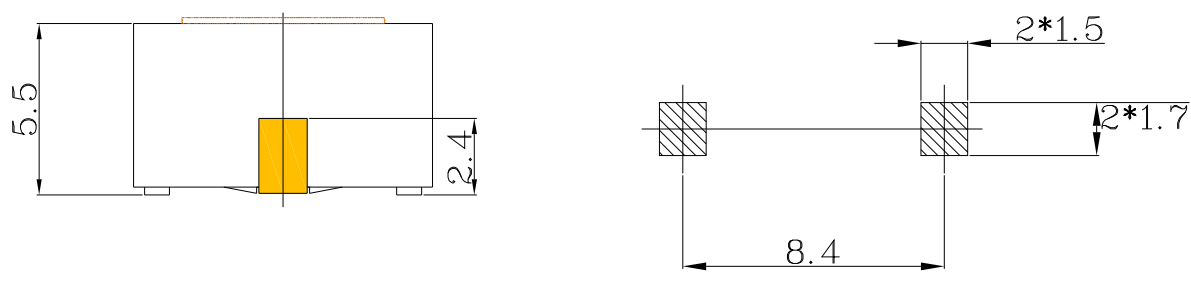


RoHS

REV NO.	REVISION NOTE	APPROVAL	DATE
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RECOMMENDED P.C.B LAYOUT

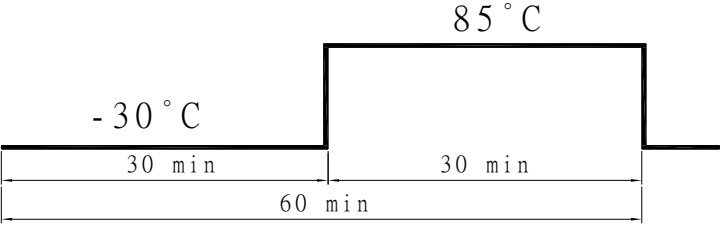
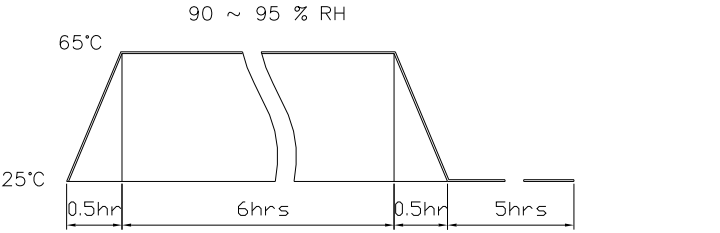
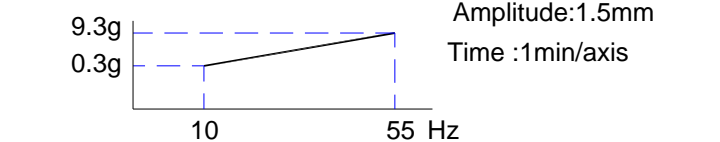


RoHS

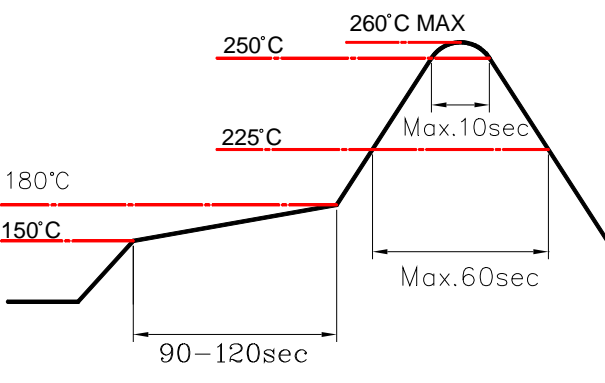
TITLE: SOUND TRANSDUCER (SMD)		DRAWN: Ricrad 2013/01/18	SCALE: 1:1	SHEET: 1 : 1
PART NO. AD-1005S-BM1		DESIGNED: R & D OF AAT	UNITS: mm	
DWG NO. FDM-2865 SMD-096055F-05027DJ-1		CHECKED:	TOLERANCE ± 0.5	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL ± *** TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***	
REV 1		MATERIAL: PPS		

A & B Components

4. RELIABILITY TESTS

Item	Test conditions	Evaluation standard
01 High temp. Storage life	The part shall be capable of withstanding a storage Temperature of +85°C for 96 hours.	
02 Low temp. Storage life	The part shall be capable of withstanding a storage Temperature of -30°C for 96 hours.	
03 Temp. cycle	<p>The part shall be subjected 10 cycles. One cycle shall of ;</p> 	
04 Temp./Humidity cycle	<p>The part shall be subjected 10 cycles. One cycle shall be 12 hours and consist of;</p> 	<p>1. After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L</p> <p>2. S.P.L shall be ±7 dB.</p>
05 Operating life	<p>Rated Voltage, Frequency applied.</p> <ol style="list-style-type: none"> Ordinary temperature The part shall be subjected to 1000 hours at room temperature (25 ±10°C) High temperature The part shall be subjected to 500 hours at 70°C Low temperature The part shall be subjected to 500 hours at -20°C 	
06 Vibration	 <p>Make this test for the directions of X, Y, Z for 2 hours each (total 6 hours).</p>	

Item	Test conditions	Evaluation standard
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07	Free drop	The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 1 times in 3 Direction each (X.Y.Z). (a total of 3 times).	
08	Free drop (Packing)	The part only shall be dropped from a height of 100cm onto a 10mm thick wooden board 1 times in 3 axes (X.Y.Z). (a total of 3 times).	
09	Solder ability	Hand Soldering : $360\pm 5^{\circ}\text{C}$ / ≤ 2 Sec. Recommend using constant searing-iron	
10	Soldering profile	Soldering into solder bath: 	1. After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L 2. S.P.L shall be ± 7 dB.
11	Wash ability	Solvent : deionizer water Solvent temp. : $55\pm 5^{\circ}\text{C}$ Soaking time : 5 ± 0.5 min.	

Note:

1. After solder bath, the cooling time must be longer than 2 hours before function test.
2. If you need more information, please contact our technology department, thank you.