MESSRS. Ivent Solutions Limited

SPECIFICATION FOR APPROVAL

承 認 書

Product	ELECTRO MAGNETIC BUZZER SELF(SMD)
Part No.	AD-1005S-BM1
Customer Approval	
Customer Part No.	

Approved By	Checked By	Made By
工程部 JASON CHEN SEP-13-2012	工程部 ZACK GUO SEP-13-2012	工程部 JERRY CHEN SEP-13-2012

Advanced Acoustic Technology Corporation

昊宬股份有限公司//常州笠翔电子有限公司

ISO 9001 Certified

ISO 14001 Certified

QS9000 Certified

Head Company / 2F, No.207, Sec. 6, Chung Shan N. Rd., Taipei, Taiwan

Tel: +886-2-8866-5255 Fax: +886-2-8866-5250

大陸總公司 / 中國江蘇省常州市新北區龍虎塘工業園新苑四路 89 號

Tel: +86-519-8511-2382 Fax: +86-519-8510-0908

http://www.aatc.com.tw www.aatc.com.cn

EDITION:1.1

RoHS

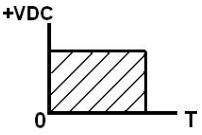
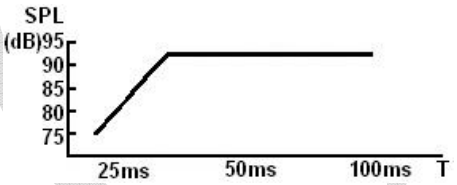
ADVANCED ACOUSTIC TECHNOLOGY CORP.
昊 宬 股 份 有 限 公 司

REVISIONS			
PRODUCT			**ELECTRO MAGNETIC BUZZERSELF(SMD)**
PART NO.			**AD-1005S-BM1**
REV.	**REVISER**	**DATE**	**DESCRIPTION**
1	JERRY	2012-09-13	Creating new drawing SPEC.

RoHS

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	 Frequency response times: ≧100 ms
06	Operating Temp.	℃	-20 ~ +70	
07	Storage Temp.	℃	-30 ~ +85	
08	Weight	g	1.0	

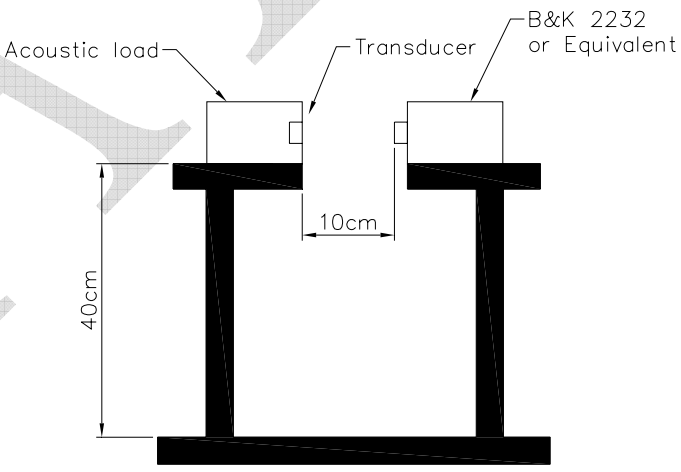
2. MEASURING METHOD

2-1. Test Condition

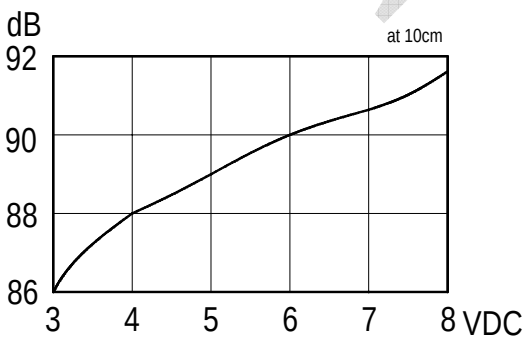
STANDARD
Temperature : 15 ~ 35℃
Relative humidity : 25% ~ 85%,
Atmospheric pressure: 860mbar to 1060mbar.

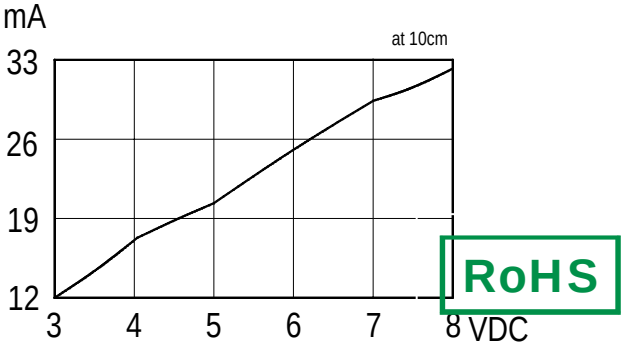
JUDGEMENT
Temperature : 20±3℃
Relative humidity : 60% ~ 70%,
Atmospheric pressure : 860mbar to 1060mbar

2-2. Standard Test Fixture



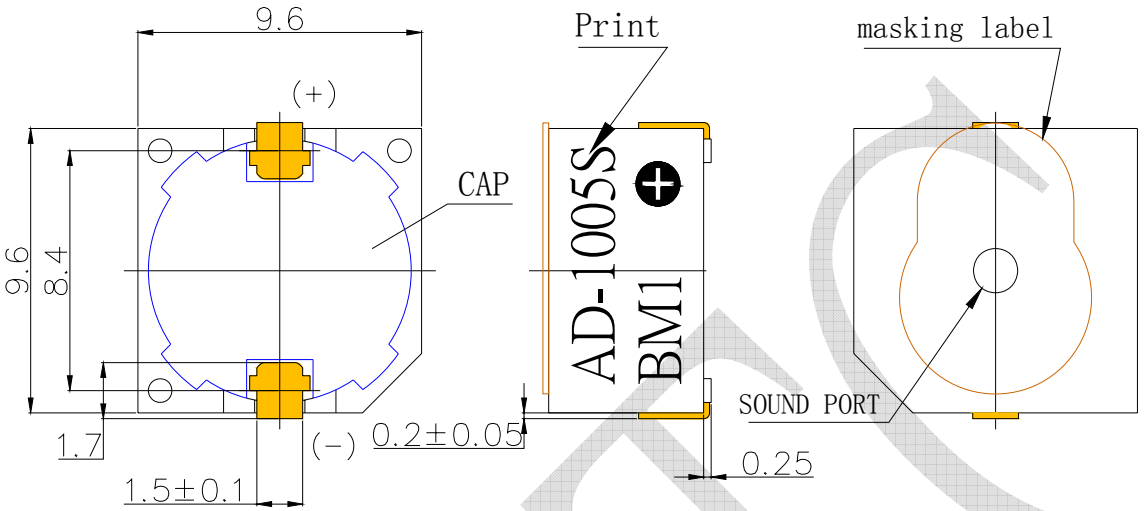
2-3. Frequency Response Curve



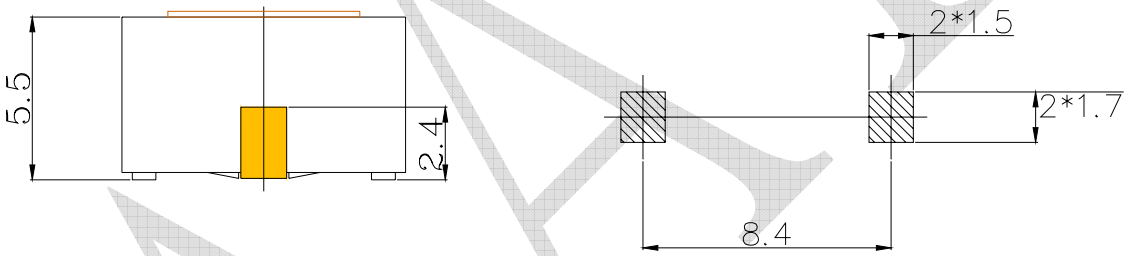


RoHS

REV NO.	REVISION NOTE	APPROVAL	DATE



RECOMMENDED P.C.B LAYOUT

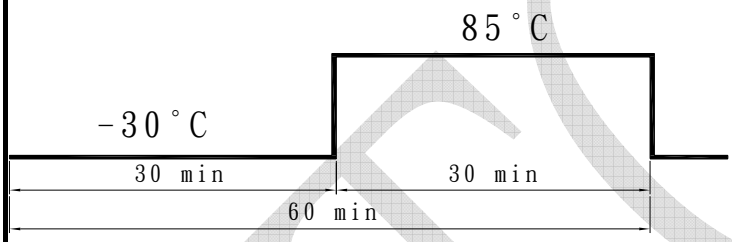
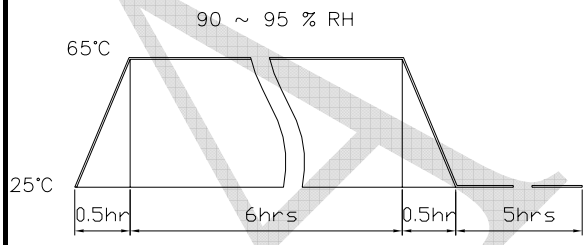
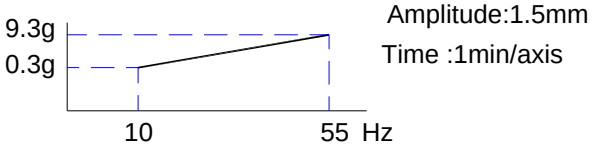


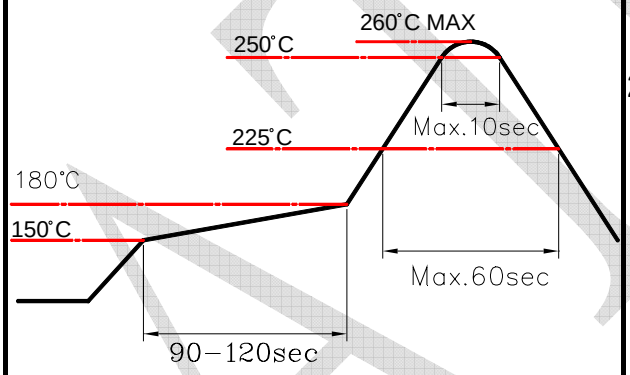
RoHS

TITLE: SOUND TRANSDUCER (SMD)		DRAWN: Jerry 2012/09/13	SCALE: 1:1	SHEET: 1 : 1
PART NO. AD-1005S-BM1	1	DESIGNED: R & D OF AAT	UNITS: mm	
		CHECKED:	TOLERANCE ± 0.5	
DWG NO. FDM-2865 SMD-096055F-05027DJ-1		APPROVAL:	UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL ± *** TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***	
	REV	MATERIAL: PPS		

ADVANCED ACOUSTIC TECHNOLOGY CORPORATION

4. RELIABLITY TESTS

	Item	Test conditions	Evaluation standard
01	High temp. Storage life	The part shall be capable of withstanding a storage Temperature of +85℃ for 96 hours.	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.
02	Low temp. Storage life	The part shall be capable of withstanding a storage Temperature of -30℃ for 96 hours.	
03	Temp. cycle	The part shall be subjected 10 cycles. One cycle shall of ; 	
04	Temp./Humidity cycle	The part shall be subjected 10 cycles. One cycle shall be 12 hours and consist of; 	
05	Operating life	Rated Voltage, Frequency applied. 1. Ordinary temperature The part shall be subjected to 1000 hours at room temperature (25 ±10℃) 1. High temperature The part shall be subjected to 500 hours at 70℃ 2. Low temperature The part shall be subjected to 500 hours at -20℃	
06	Vibration	 Make this test for the directions of X, Y, Z for 2 hours each (total 6 hours).	

Item		Test conditions	Evaluation standard
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).	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.
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±5℃ / ≦ 2 Sec. Recommend using constant searing-iron	
10	Soldering profile	Soldering into solder bath: 	
11	Wash ability	Solvent : deionizer water Solvent temp. : 55±5℃ 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.