MESSRS. 妙昌科技股份有限公司

SPECIFICATION FOR APPROVAL

承認書

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

Approved By	Checked By	Made By
工程部	工程部	工程部
JASON CHEN	MOOSE CHEN	ZACK KUO
AUG-06-2015	AUG-06-2015	AUG-06-2015



Advanced Acoustic Technology Corporation 吴宬股份有限公司//常州笠翔电子有限公司



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

RoHS



ADVANCED ACOUSTIC TECHNOLOGY CORP.

昊宬股份有限公司

REVISIONS			
PRODUCT		т	ELECTRO MAGNETIC BUZZERSELF(SMD)
	PART NO	D .	AD-1005-BM
REV.	REVISER	DATE	DESCRIPTION
1	JASON_C	2010-06-23	Creating new drawing SPEC.
2	JERRY	2013-06-27	更新公司名稱:昊宬股份有限公司
3	ZACK	2013-08-12	印字圖面修正
4	ZACK	2015-08-06	加註:焊盤上使用高溫有鉛錫絲
		*	
			RoH

1. SPECIFICATION

AD-1005-BM

ITEM		UNITS	SPECIFICATIONS	CONDITIONS
01	Rated Voltage	V	5	+VDC
02	Operating Voltage	V	3 ~ 8	от
03	Rated Current	mA (Max)	30	Rated Voltage
04	Sound pressure level	dB(A) (Min)	80	Distance at 10cm
05	Resonant Frequency	Hz	2700± 300	SPL (dB)95 _F
06	Operating Temp.	${\mathbb C}$	-20 ~ +70	90- 85- 80- 75-
07	Storage Temp.	${\mathbb C}$	-30 ~ +85	25ms 50ms 100ms T
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.

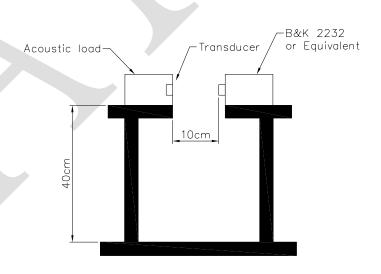
JUDGEMENT

Temperature : 20±3 $^{\circ}$ C

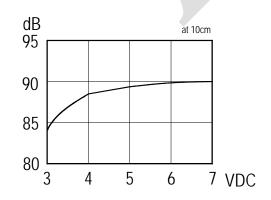
Relative humidity: 60% ~ 70%,

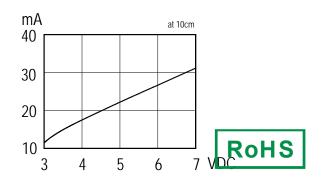
Atmospheric pressure: 860mbar to 1060mbar

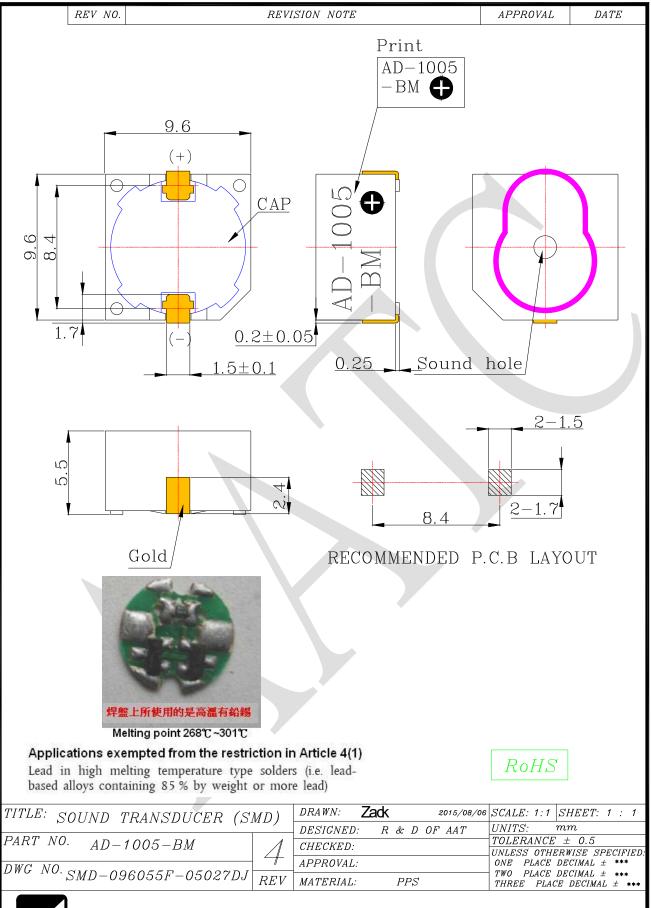
2-2. Standard Test Fixture



2-3. Frequency Response Curve









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4. RELIABLITY TESTS

Item		Test conditions	Evaluation standard
01	High temp. Storage life	The part shall be capable of withstanding a storage Temperature of $+85^{\circ}\text{C}$ 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	The part shall be subjected 10 cycles. One cycle shall of ; 85 ° C -30 ° C 30 min 60 min	
04	Temp./Humidity cycle	The part shall be subjected 10 cycles. One cycle shall of; 90 ~ 95 % RH 25°C 5hrs 0.5hr 6hrs 0.5hr 12hrs	After the test the part shall meet specifications without Any degradation in appearance
05	Operating life	 Rated Voltage, Frequency applied. 1. Ordinary temperature The part shall be subjected to 1000 hours at room temperature (25 ±10°C) 2. High temperature The part shall be subjected to 500 hours at 70°C 3. Low temperature The part shall be subjected to 500 hours at -20°C 	and performance except S.P.L 2. S.P.L shall be ±7 dB.
06	Vibration	9.3g 0.3g Amplitude:1.5mm Time:1min/axis 10 55 Hz 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).		
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 heat resistance	1.Hand Soldering: 360±10°C, 2±0.5 Sec. Recommend using constant searing-iron 2.Soldering into solder bath:260±5°C,5~10 Sec. Soldering profile. 260°C MAX 225°C Max.10sec 180°C 150°C 90-120sec	 After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L S.P.L shall be ±7 dB. 	
10	Wash ability	Solvent : deionizer water Solvent temp. : $55\pm5^{\circ}$ C Soaking time : 5 ± 0.5 min. After the washing process, be sure to tear off the label.		

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.

5. RPACKING

