

MESSRS.

SPECIFICATION FOR APPROVAL

承 認 書

Product	ELECTRO MAGNETIC BUZZER SELF(SMD)
Part No.	ADI-1005S-C-1
Customer Approval	
Customer Part No.	

Approved By	Checked By	Made By
		



Advanced Acoustic Technology Corporation
昊宸股份有限公司 // 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

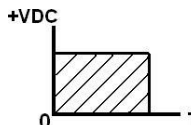
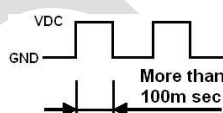
<http://www.aatc.tw>

EDITION:1.1

[illegible]

1. SPECIFICATION

ADI-1005S-C-1

ITEM		UNITS	SPECIFICATIONS	CONDITIONS
01	Rated Voltage	V	5.0	
02	Operating Voltage	V	4.0 ~ 7.0	
03	Consumption Current	mA (Max)	30	Rated Voltage
04	Resonant Frequency	Hz	2700 ± 200	Rated Voltage
05	Response times	ms	≥ 100	
06	Sound pressure level	dB(A) Min.	85	Distance at 10cm Rated Voltage / Resonant Frequency
07	Operating Temp.	°C	-30 ~ +70	
08	Storage Temp.	°C	-40 ~ +85	
09	Weight	g	0.6±0.2	

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

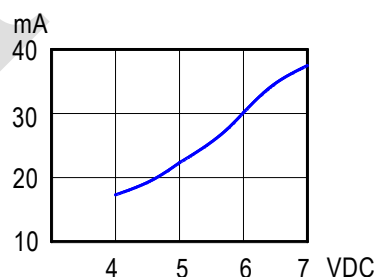
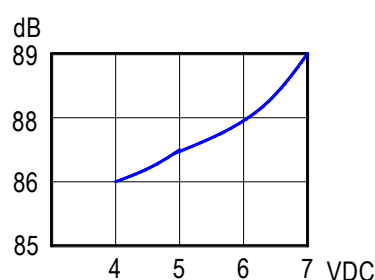
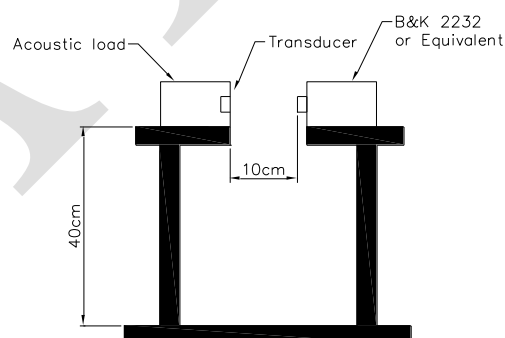
Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

2-3. Frequency Response Curve (For Reference Only)

Test distance : A=10 cm

2-2. Standard Test Fixture



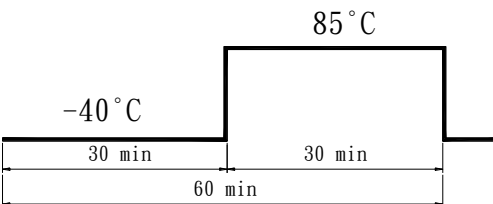
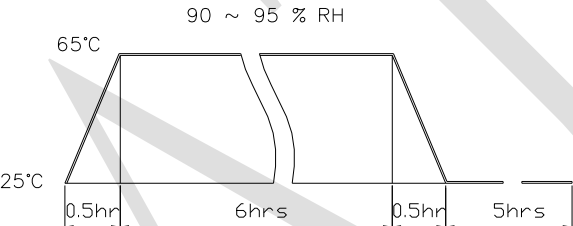
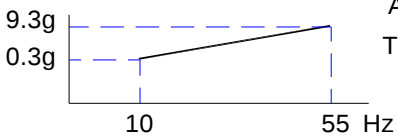
RoHS

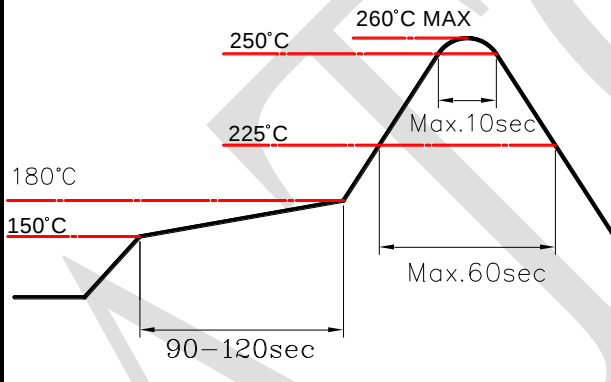
DATE _____

SCALE: 1:1	SHEET: 1 : 1
UNITS: mm	
TOLERANCE ± 0.5	
UNLESS OTHERWISE SPECIFIED.	
ONE PLACE DECIMAL $\pm$ ***	
TWO PLACE DECIMAL $\pm$ ***	
THREE PLACE DECIMAL $\pm$ ***	



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 -40°C 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; 	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.
05 Operating life	Rated Voltage, Frequency applied. 1. Ordinary temperature The part shall be subjected to 1000 hours at room temperature ($25 \pm 10^\circ\text{C}$) 1. High temperature The part shall be subjected to 500 hours at 70°C 2. Low temperature The part shall be subjected to 500 hours at -30°C	
06 Vibration	 Amplitude:1.5mm Time :1min/axis 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 : $360\pm5^{\circ}\text{C}$ / $\leq 2 \text{ Sec.}$ Recommend using constant searing-iron	
10	Soldering profile	Soldering into solder bath: 	
11	Wash ability	Solvent : deionizer water Solvent temp. : $55\pm5^{\circ}\text{C}$ Soaking time : $5\pm0.5 \text{ min.}$	

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.

5.PACKING

