

MESSRS.

SPECIFICATION FOR APPROVAL

承 認 書

Product	ELECTRO MAGNETIC BUZZER
Part No.	AC-1203D-LF
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

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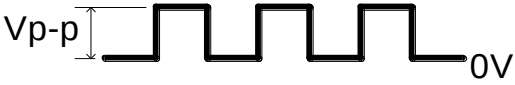
Fax: +86-519-8510-0908

<http://www.aatc.tw>

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1. SPECIFICATION

AC-1203D-LF

ITEM		UNITS	SPECIFICATIONS	CONDITIONS
01	Rated Voltage	V	3	
02	Operating Voltage	V	1.5 ~ 5	
03	Consumption Current	mA (Max)	Mean : 30	Standard state, standard drive circuit. Rated voltage, rated frequency, Square wave 1/2 duty.
			Peak : 90	
04	Sound pressure level (Distance at 10cm)	dB(A) (Min)	80	
05	Direct Current Resistance	Ω	45 ± 4	
06	Rated Frequency	Hz	2000	
07	Operating Temp.	℃	-30 ~ +70	
08	Storage Temp.	℃	-30 ~ +85	
09	Weight	g	2.0	

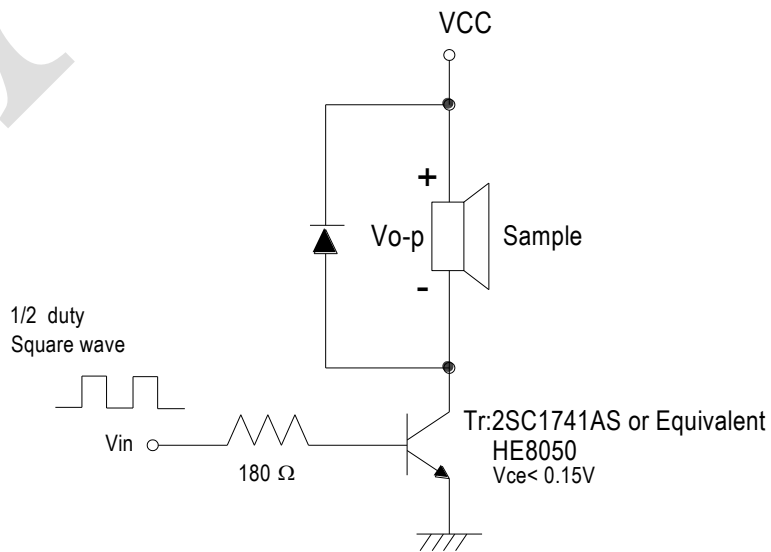
2. MEASURING METHOD

2-1. Test Condition

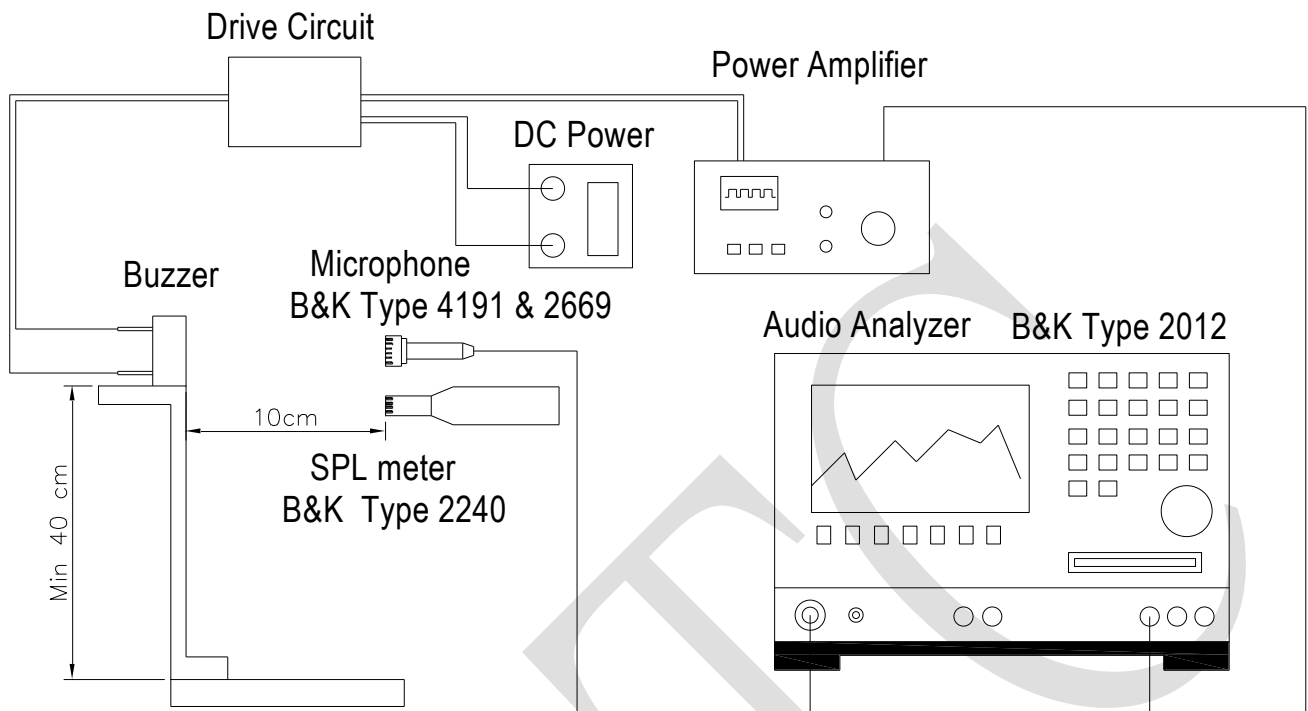
STANDARD
Temperature : 15 ~ 35℃
Relative humidity : 45% ~ 85%,
Atmospheric pressure: 860mbar to 1060mbar.

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

2-2. Standard drive circuit

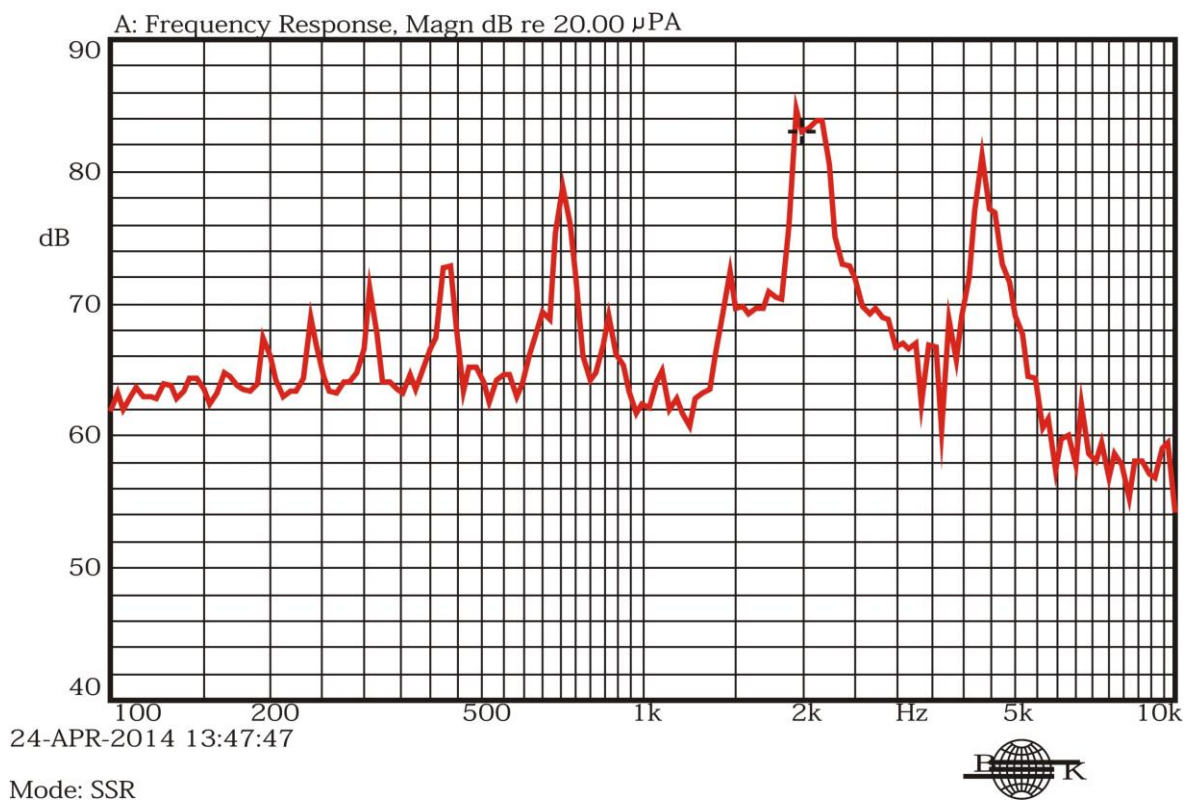


2-3. Standard Test Fixture

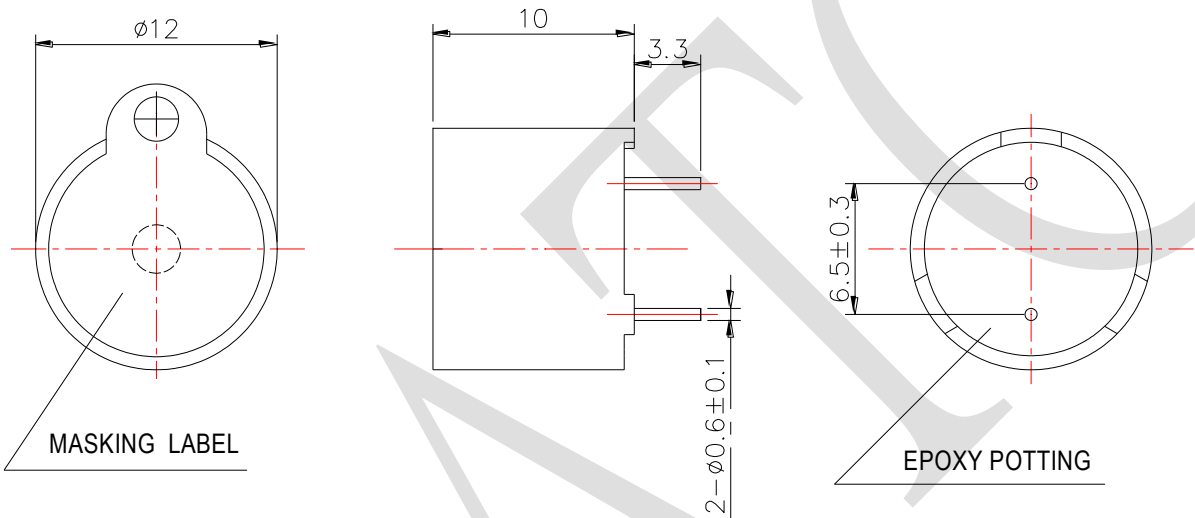


2-4. Frequency Response Curve

X:1.9953kHz Y:83.04dB ZA:Live Curve SSR T. RMS



REV NO.	REVISION NOTE	APPROVAL	DATE
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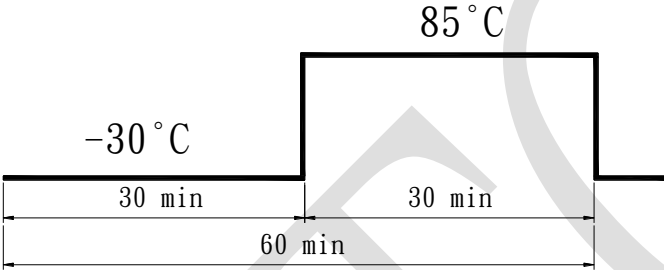
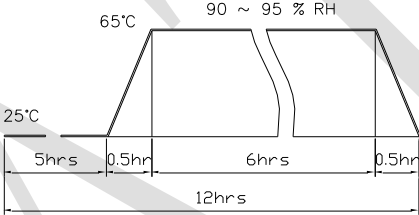
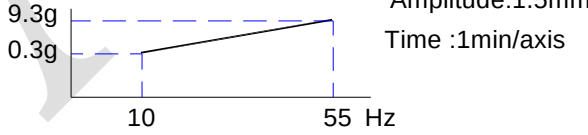
RoHS

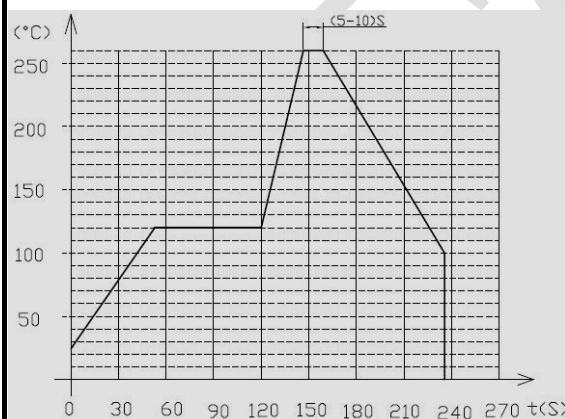
TITLE: ELECTRO MAGNETIC BUZZER		DRAWN: Zack	2014/04/24	SCALE: 4:1	SHEET: 1 of 1
PART NO. AC-1203D-LF	2	DESIGNED: R&D OF AAT		UNITS: mm	TOLERANCE ± 0.5
		CHECKED:		UNLESS OTHERWISE SPECIFIED:	
		APPROVAL:		ONE PLACE DECIMAL ± ***	
DWG NO. DTE-2063	REV	MATERIAL: PBT		TWO PLACE DECIMAL ± ***	
				THREE PLACE DECIMAL ± ***	



ADVANCED ACOUSTIC TECHNOLOGY CORPORATION

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.	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°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 of; 	
05 Operating life	Rated Voltage, Frequency applied. 1. Ordinary temperature The part shall be subjected to 1000 hours at room temperature ($25 \pm 10^\circ\text{C}$) 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 -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).	
07 Lead strength	Pull lead with a force of 9.8N, on the direction of the lead axis for $10 : 10 \pm 1$ sec	

Item		Test conditions	Evaluation standard
08	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.
	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℃ , 2±0.5 Sec. Recommend using constant searing-iron 2.Soldering into solder bath:260±5℃ , 5~10 Sec. Soldering profile.	
		 We don't recommend soldering by reflow	
10	Wash ability	Solvent : deionizer water Solvent temp. : 55±5℃ Soaking time : 5±0.5 min. After the washing process, be sure to tear off the label.	

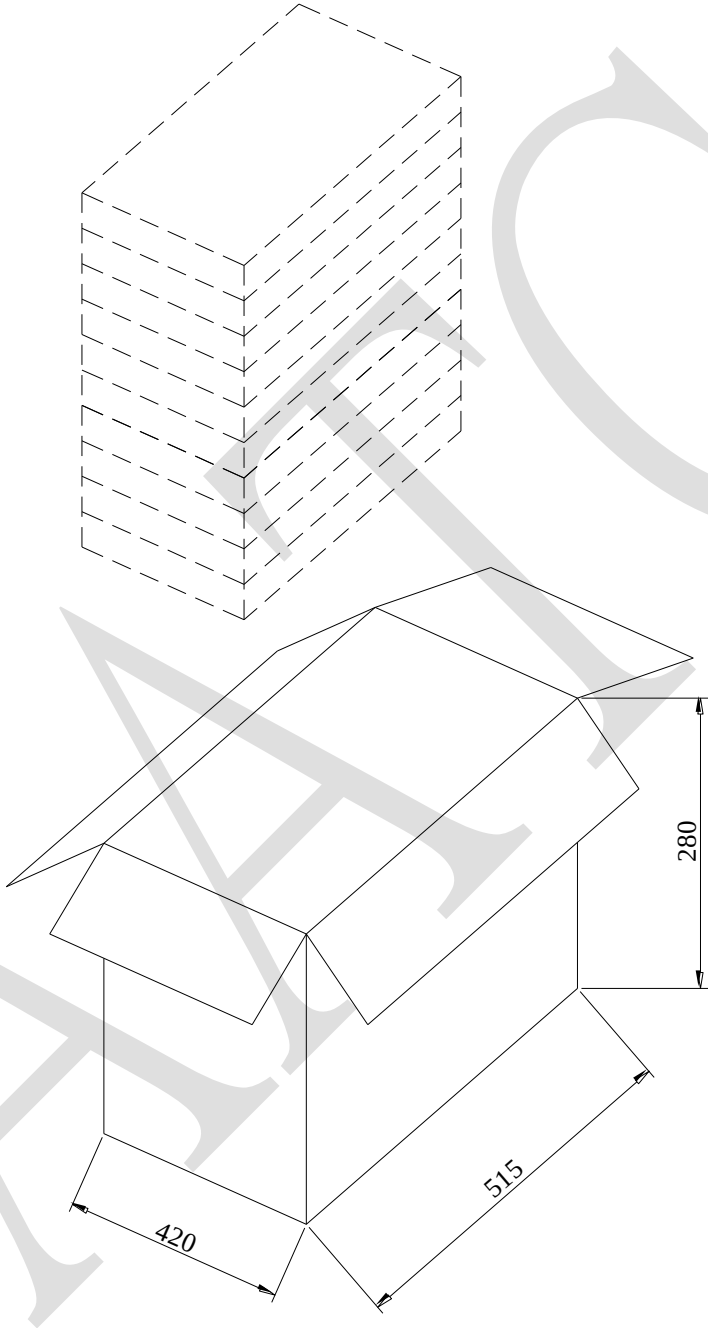
Note:

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.

4. RELIABLITY TESTS

H:包装规格:



包装箱	长×宽×高 (mm)	包装数量 (只)
泡沫盒	240×160×28	100
塑料袋	240×160×280	1000
纸箱	515×420×280	5000