MESSRS. SIRICOM

SPECIFICATION FOR APPROVAL

承

認



Product	ELECTRO MAGNETIC BUZZER	
Part No.	AC-12T5A	
Customer Approval		
Customer Part No.		

Approved By	Checked By	Made By
工程部	工程部	工程部
BOB CHEN	ZACK KUO	HANK CHEN
FEB-20-2020	FEB-20-2020	FEB-20-2020



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RoHS



ADVANCED ACOUSTIC TECHNOLOGY CORP.

昊宬股份有限公司

	REVISIONS			
PRODUCT		CT .	ELECTRO MAGNETIC BUZZER	
PART NO.) .	AC-12T5A	
REV.	REVISER	DATE	DESCRIPTION	
1	HANK	2020-02-20	Releasing new drawing SPEC.	

1. SPECIFICATION

AC-12T5A

	ITEM	UNITS	SPECIFICATIONS	CONDITIONS
01	Rated Voltage	٧	5.0	Vp-p OV
02	Operating Voltage	٧	3.0 ~ 8.0	
03	Consumption Current	mA Max.	100	Standard state, standard drive circuit. Square wave 1/2 duty.
04	Sound pressure level (Distance at 10cm)	dB(A) Min.	85	Rated voltage, rated frequency.
05	Direct Current Resistance	Ω	16±4	
06	Rated Frequency	Hz	2048	
07	Operating Temp.	${\mathbb C}$	-30 ~ +70	
08	Storage Temp.	${\mathbb C}$	-40 ~ +85	
09	Weight	g	2	

2. MEASURING METHOD

2-1. Test Condition

STANDARD

Temperature : $15 \sim 35^{\circ}$ C

Relative humidity: 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

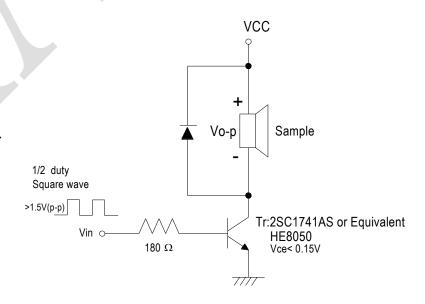
JUDGEMENT

Temperature : 20±3°C

Relative humidity: 60% ~ 70%,

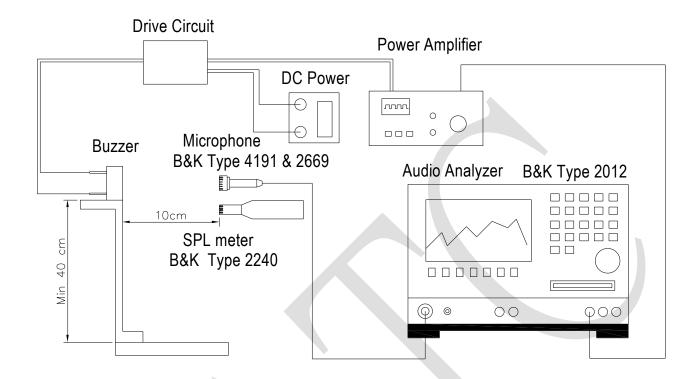
Atmospheric pressure: 860mbar to 1060mbar

2-2. Standard drive circuit

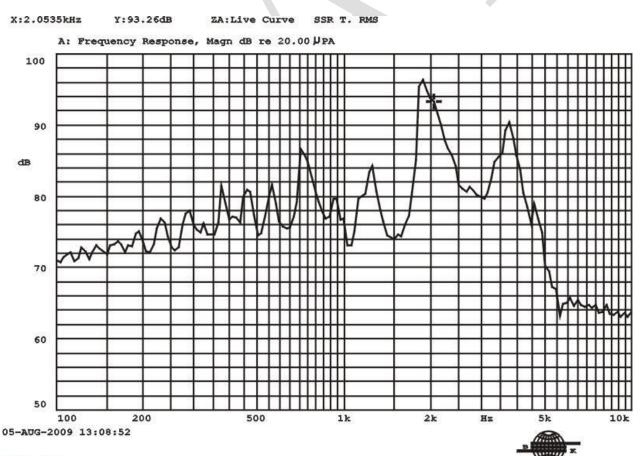


2-3. Standard Test Fixture

Distance: X=10 cm

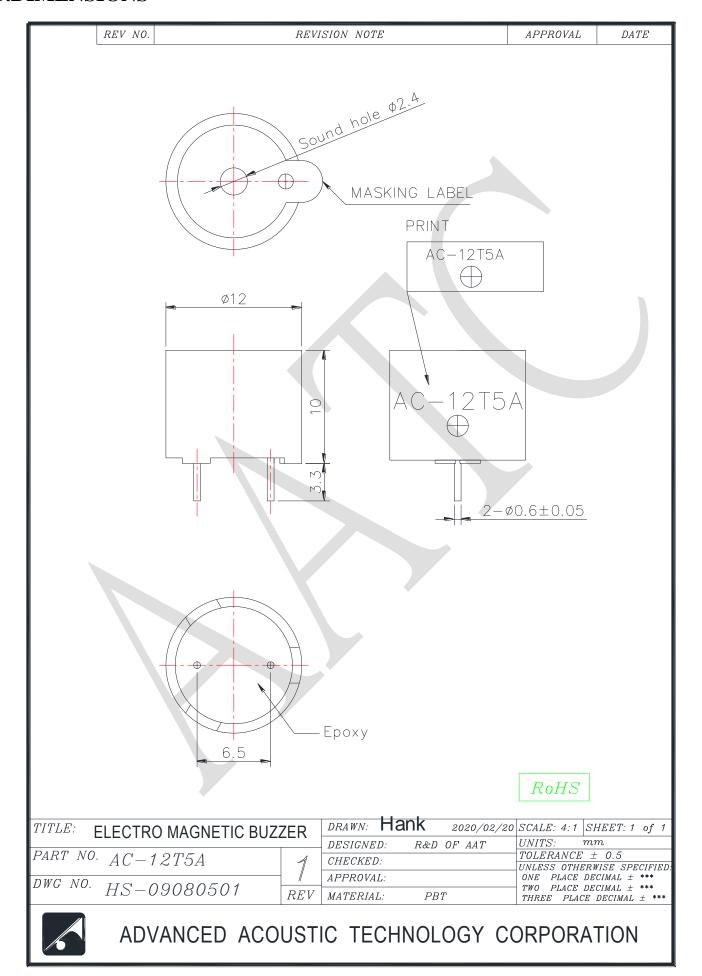


2-4. Frequency Response Curve



Mode: SSR

3.DIMENSIONS



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 $^{\circ}$ C for 96 hours.	
03	Temp. cycle	The part shall be subjected 10 cycles. One cycle shall of; 85°C -40°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
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 -30°C 	Any degradation in appearance 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 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±1 sec	

ltem		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).	After the test the part shall meet specifications without Any degradation in appearance
	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).	and performance except S.P.L 2. S.P.L shall be ±7 dB.

5. CAUITIONS FOR USE

As this product is not protected from foreign material entering, please make sure that any foreign materials do not enter this product in your production processes.

01 (e.g. magnetic powder, washing solvent, flux, corrosive gas)

由於本產品不能防止異物進入,請確保任何異物不會在生產過程中進入本產品。 (例如磁粉,洗滌溶劑,焊劑,腐蝕性氣體)

The functional degradation may occur if foreign material enter it. (e.g. SPL down)

如果外來物質進入,則可能發生功能退化。(例如 SPL 下降)

Wash ability

耐洗性

Solvent : deionizer water

溶劑:去離子水

03 Solvent temp: 55±5°C

溶劑溫度:55±5℃

Soaking time: 5±0.5 min. 浸泡時間:5±0.5 分鐘

After the washing process, be sure to tear off the label.

在洗滌過程後,一定要撕下標籤。

After solder bath, the cooling time must be longer than 2 hours before function test.

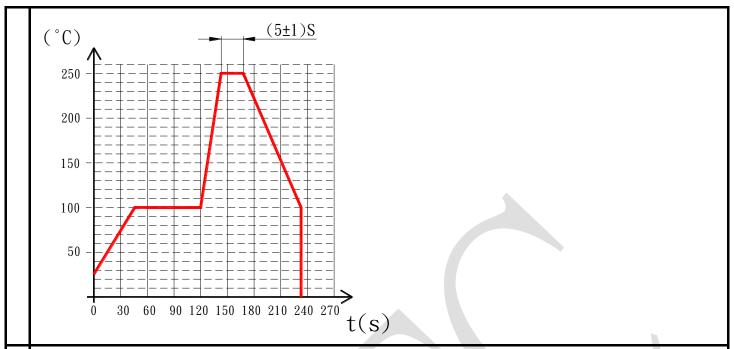
測試功能前,必須在過完錫爐後並冷卻2小時以上。

Soldering profile

_ 爐溫曲線

Soldering into solder bath:250±5°€,5±1 Sec.

錫爐溫度: 250±5℃,5±1 Sec.



Soldering with iron

焊接

Hand soldering : 360±10°C/≤2 Sec.

手焊: 360±10℃ / ≦ 2 Sec.

Recommend using constant searing-iron

建議使用烙鐵

AATC reserves the right to change product material without prior notice, guaranteeing the same specification. Materials are subject to change due to environmental regulations, sourcing, and process improvements.

材料可能由於環境法規,物料及製程工藝精進而發生變動,AATC 保證相同的規格,並有權保留更改產品材料的權利,恕不另行通知。

If you need more information, please contact our technology department, thank you 如您需要更多信息,請聯繫我們的技術部門,謝謝。

6. PACKING

