

MESSRS.

SPECIFICATION FOR APPROVAL

承 認 書

Product	PIEZO BUZZER
Part No.	AZ-1440E-P17
Customer Approval	
Customer Part No.	

Approved By	Checked By	Made By
 <p>工程 部 JASON CHEN JAN-14-2013</p>	 <p>工程 部 ZACK GUO JAN-14-2013</p>	 <p>工程 部 JEERY CHEN JAN-14-2013</p>



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EDITION:1.1

RoHS

1. SPECIFICATION

AZ-1440E-P17

ITEM		UNITS	SPECIFICATIONS	CONDITIONS
01	Rated Voltage	V	5	Vp-p (Square Wave) 1/2 duty
02	Operating Voltage	V	1~ 20	
03	Rated Current	mA(Max)	1	Rated Voltage
04	Sound pressure level (Distance at 10cm)	dBA(Min)	80	Rated Voltage Rated Frequency
05	Resonant Frequency	Hz	4000± 500	Rated Voltage
06	Capacitance	pF	13000±30%	At 120Hz
07	Operating Temp.	°C	-20 ~ +70	
08	Storage Temp.	°C	-40 ~ +80	
09	Weight	g	1.0	

2. MEASURING METHOD

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35°C

Relative humidity: 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

JUDGEMENT

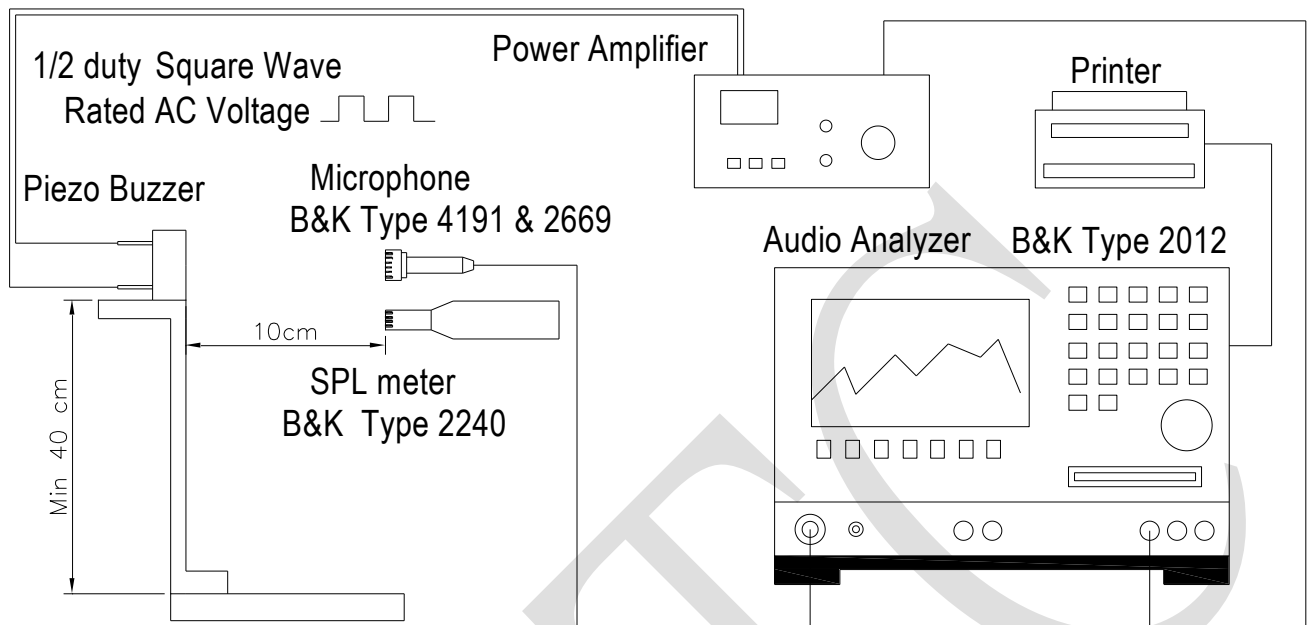
Temperature : 20±3°C

Relative humidity: 60% ~ 70%,

Atmospheric pressure: 860mbar to 1060mbar

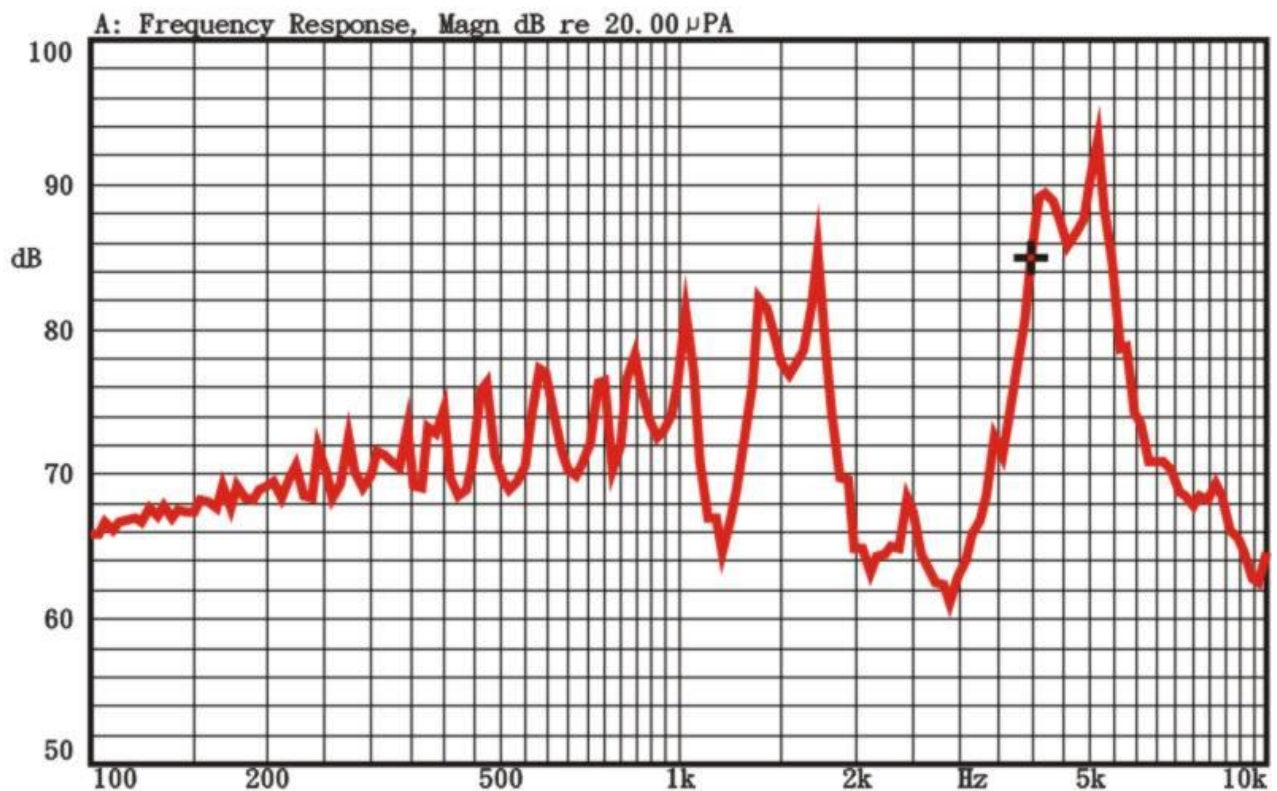
RoHS

2-2. Standard Test Fixture



2-3. Frequency Response Curve

X:3.9811kHz Y:84.99dB ZA:Live Curve SSR T. RMS



03-MAR-2011 15:05:23

Mode: SSR

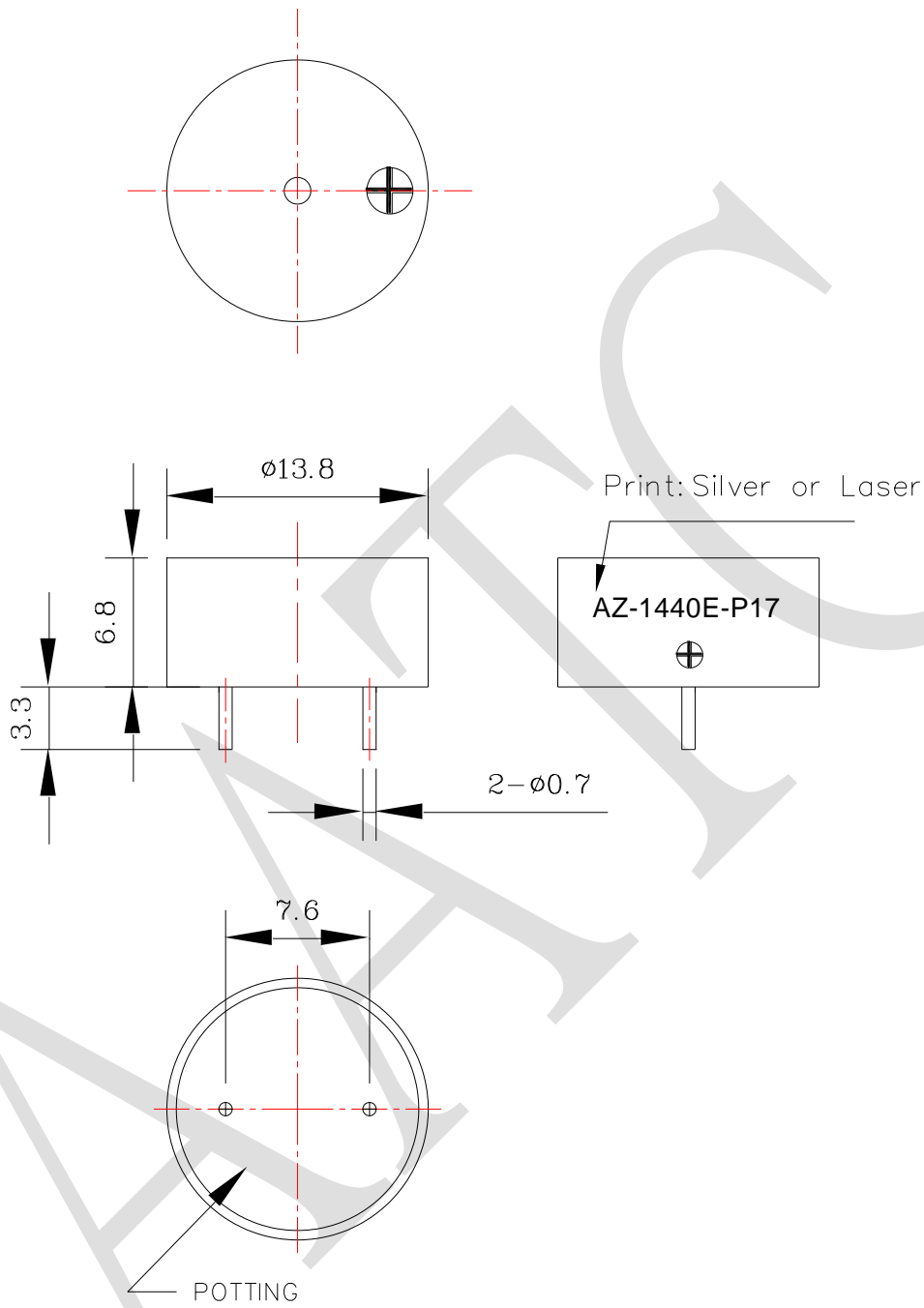


REV NO.

REVISION NOTE

APPROVAL

DATE



RoHS

TITLE: *PIEZO BUZZER*

DRAWN: **Jerry** 2013/01/14

SCALE: 2:1

SHEET: 1:1

PART NO. *AZ-1440E-P17*

DESIGNED: R&D OF AAT

UNITS: mm

DWG NO. *HL-110218*

2

CHECKED:

TOLERANCE ± 0.5

APPROVAL:

UNLESS OTHERWISE SPECIFIED:

REV

MATERIAL: *NORYL*

ONE PLACE DECIMAL \pm ***

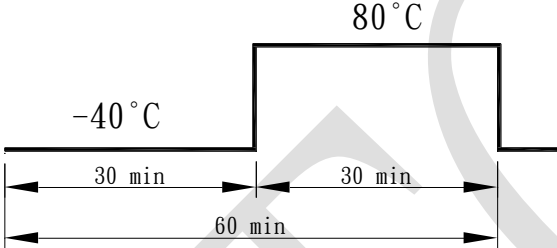
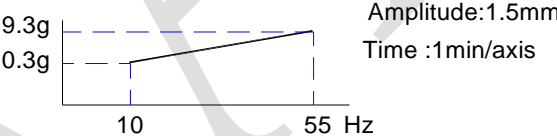
TWO PLACE DECIMAL \pm ***

THREE PLACE DECIMAL \pm ***



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 +80°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 -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 with 90~95% R.H at +40°C for 96 hours.	
05 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).	
06 Lead Strength	Pull lead with a force of 9.8N, on the direction of the lead axis for 10 : 10 \pm 1 sec	
07 Vibration	 <p>Amplitude: 1.5mm Time : 1min/axis</p> Make this test for the directions of X, Y, Z for 2 hours each (total 6 hours).	

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.

CAUTION : WASH NOT ALLOWED!

警告：不可使用於水洗製程!

5. SOLDERING CONDITION

Recommend using constant searing-iron in temperature range **360 \pm 5°C**.

Soldering time **2** seconds