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# SPECIFICATION FOR APPROVAL

Product	PIEZO BUZZER
Part No.	AZ-1240E-P3
Customer Approval	

Approved By	Checked By	Made By



A & B Components

<http://www.speaker-tw.com>

# 1. SPECIFICATION

AZ-1240E-P3

ITEM		UNITS	SPECIFICATIONS	CONDITIONS
01	Rated Voltage	V	5	Vp-p (Square Wave) 1/2 duty
02	Operating Voltage	V	1~ 25	
03	Rated Current	mA(Max)	3	Rated Voltage
04	Sound pressure level (Distance at 10cm )	dBA(Min)	75	Rated Voltage Rated Frequency
05	Resonant Frequency	Hz	4000± 300	Rated Voltage
06	Capacitance	pF	12000±30%	At 120Hz
07	Operating Temp.	°C	-20 ~ +70	
08	Storage Temp.	°C	-30 ~ +80	
09	Weight	g	0.4	

## 2. MEASURING METHOD

### 2-1. Test Condition

#### STANDARD

Temperature : 15 ~ 35°C

Relative humidity: 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

#### JUDGEMENT

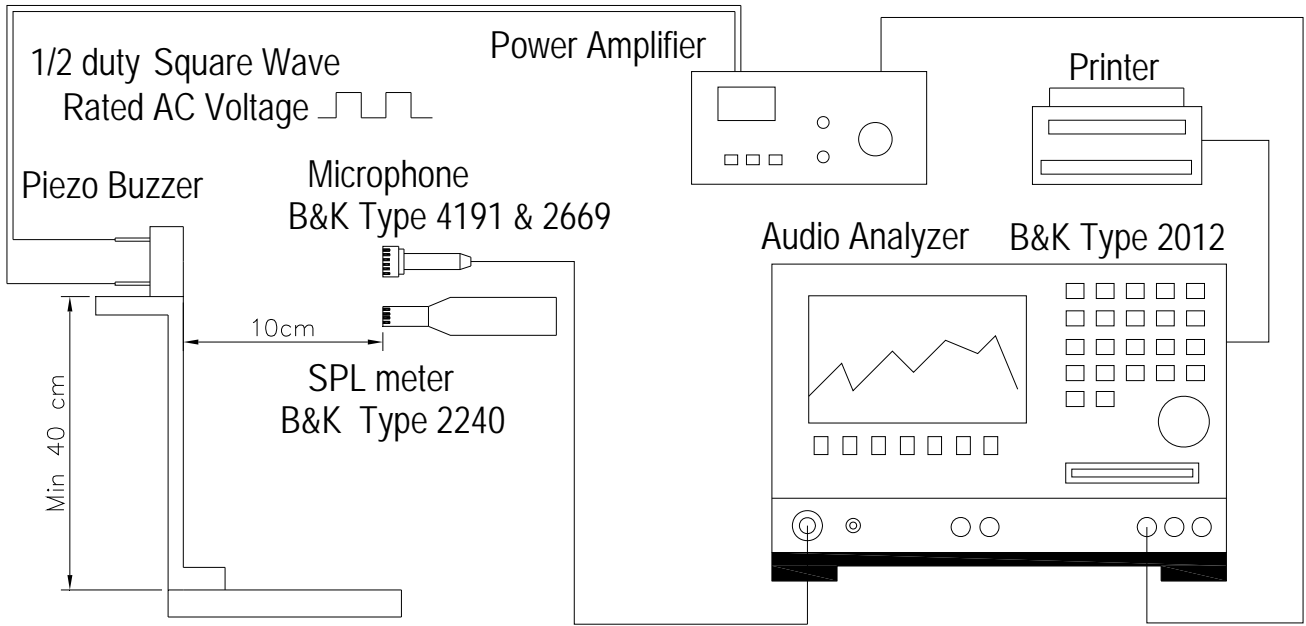
Temperature : 20±3°C

Relative humidity: 60% ~ 70%,

Atmospheric pressure: 860mbar to 1060mbar

**RoHS**

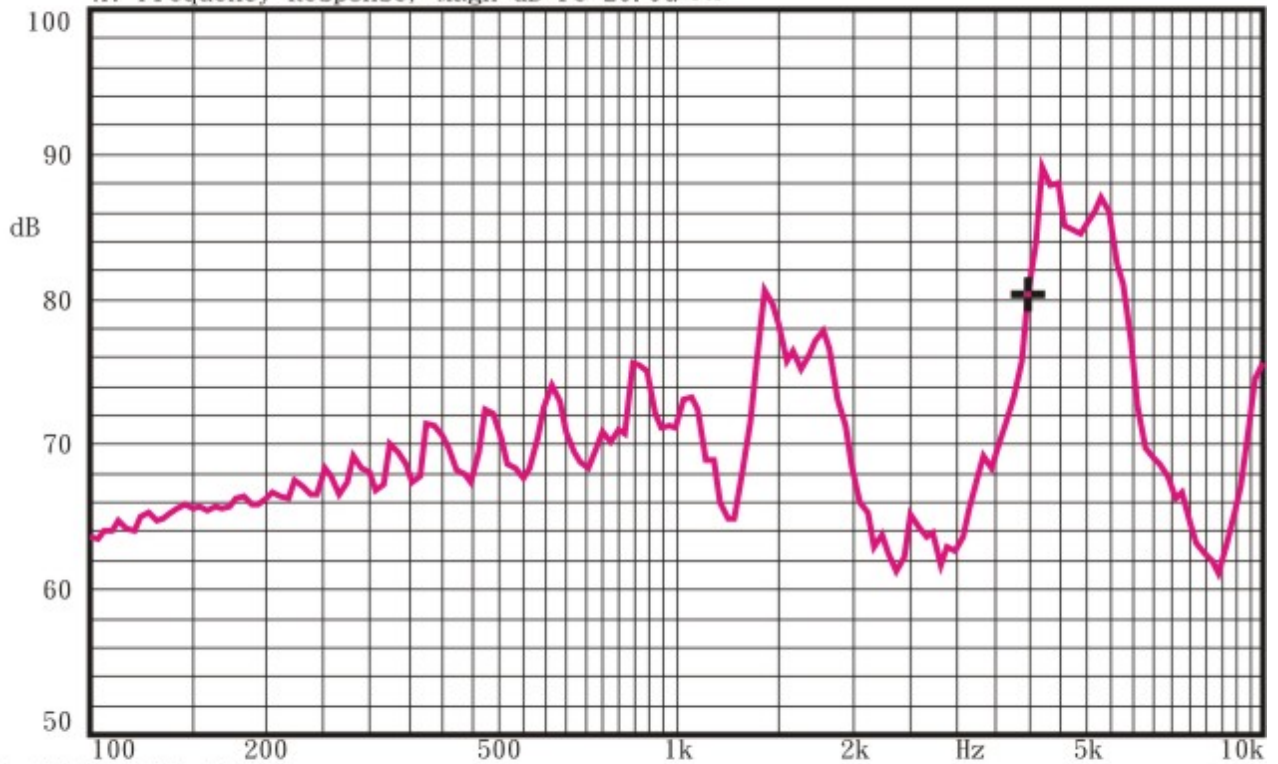
### 2-2. Standard Test Fixture



### 2-3. Frequency Response Curve

X:3.9811kHz Y:80.30dB ZA:Live Curve SSR T. RMS

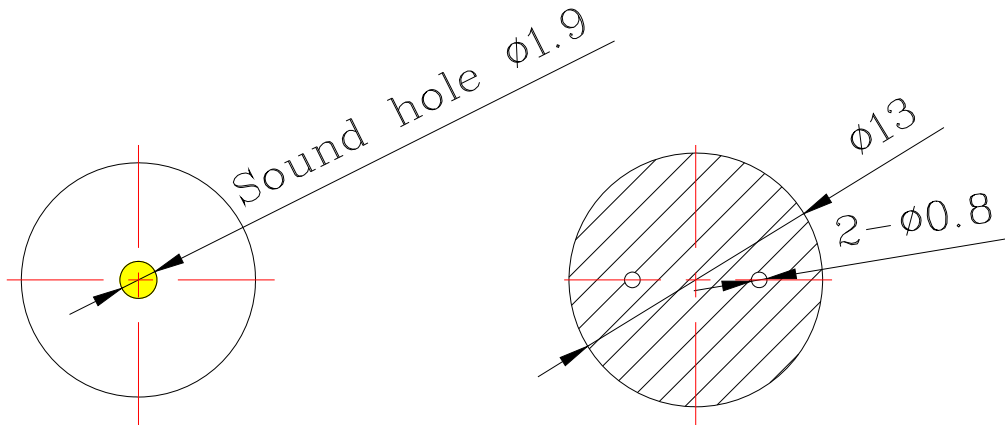
A: Frequency Response, Magn dB re 20.00 $\mu$ PA



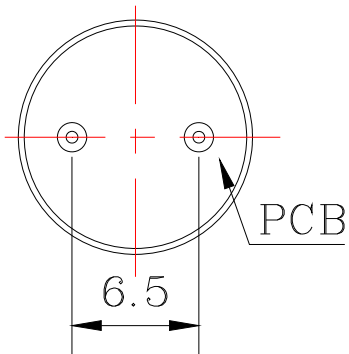
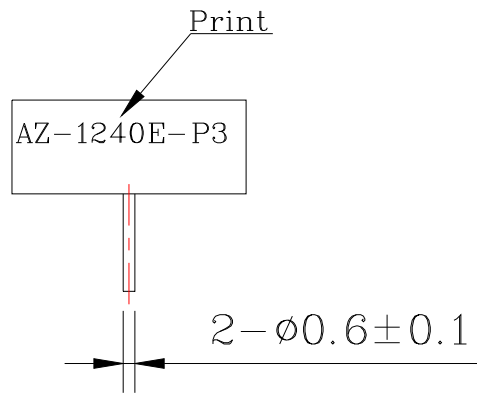
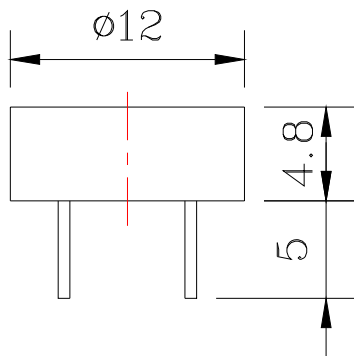
27-JUN-2013 16:05:33

Mode: SSR





RECOMMEND PCB LAYOUT

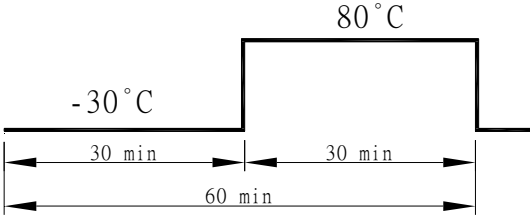
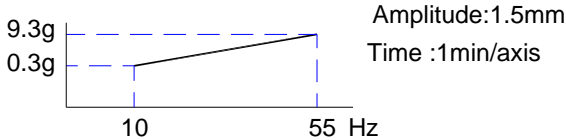


RoHS

TITLE: <i>PIEZO BUZZER</i>		DRAWN: <i>Jerry</i> 2013/07/01	SCALE: 2:1	SHEET: 1:1
PART NO.		DESIGNED: R&D OF AAT	UNITS: mm	
DWG NO.		CHECKED:	TOLERANCE ± 0.5	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL ± *** TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***	
REV		MATERIAL: PPO		

A & B Components

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 $\pm 7$ 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 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>Make this test for the directions of X, Y, Z for 2 hours each (total 6 hours).</p>	

If you need more information, please contact our technology department, thank you.

## 5. SOLDERING CONDITION

Recommend using constant searing-iron in temperature range  $360\pm 5^\circ\text{C}$ .

Soldering time 2 seconds.