
SPECIFICATION FOR APPROVAL

Product	PIEZO BUZZER
Part No.	AZ-1248E-P
Customer Approval	

Approved By	Checked By	Made By



A & B Components

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

1. Specifications

AZ-1248E-P

Items		Units	Specifications	Conditions
01	Rated Voltage	Vp-p	12	(square wave)
02	Operating Voltage	Vp-p	1~ 30	
03	Rated Current	mA(Max)	17	
04	Sound Output	dBA(Min)	85	Rated Voltage Rated Frequency distance 10cm
05	Resonant Frequency	Hz	4800±500	
06	Capacitance	pF	15000±30%	At 120Hz
07	Operating Temp.	℃	-30 ~ +75	
08	Storage Temp.	℃	-40 ~ +85	
09	Weight	g	0.7	

2. Measuring Method

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35℃

Relative humidity : 25% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

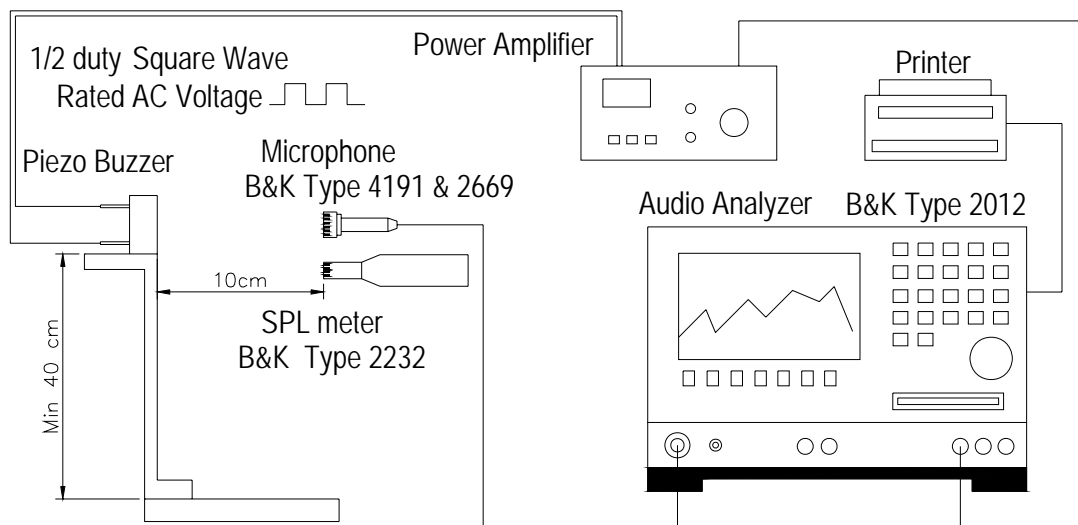
JUDGEMENT

Temperature : 20±3℃

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

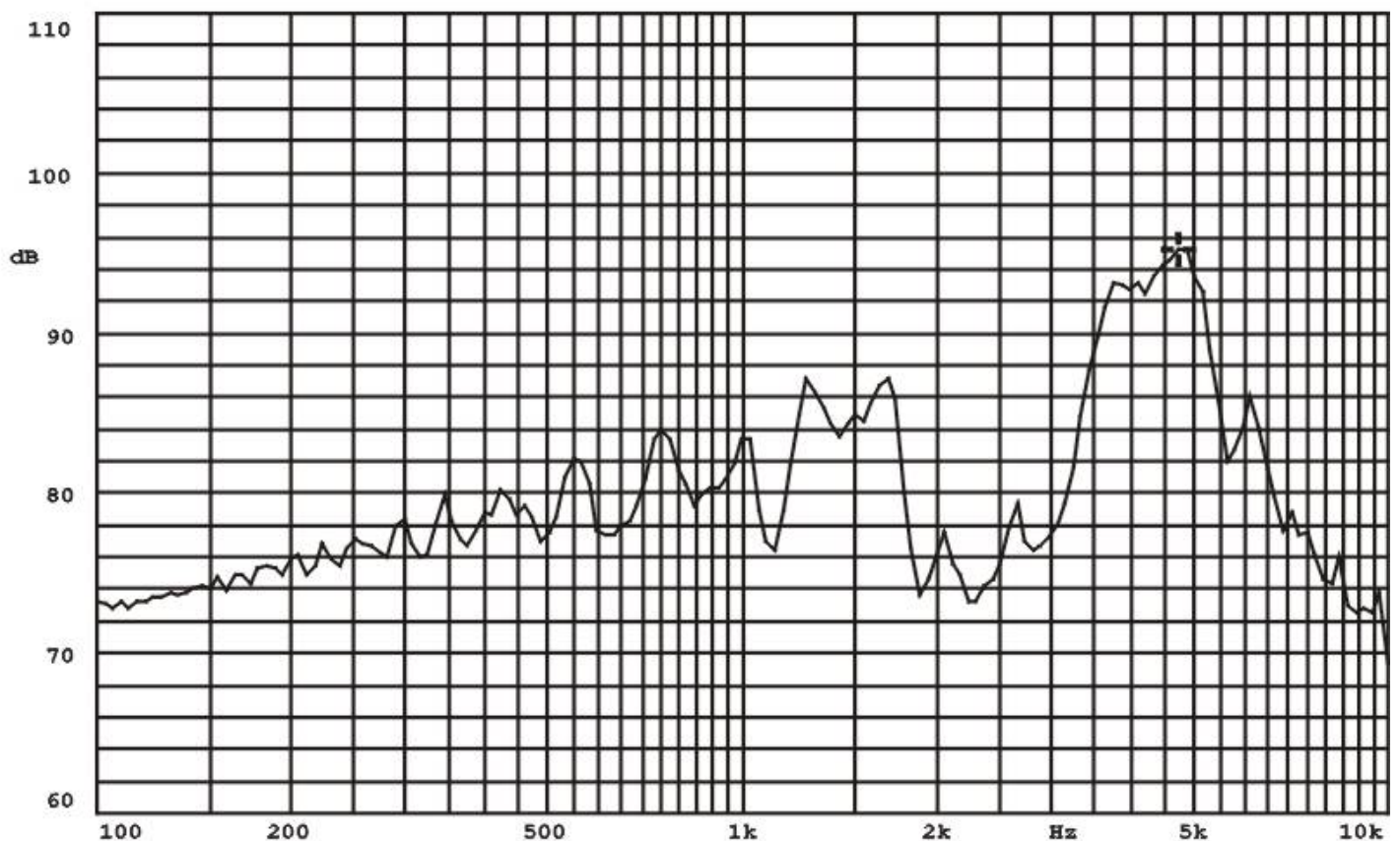
2-2. Standard Test Fixture



2-3. Frequency Response Curve

X:4.7315kHz Y:95.22dB ZA:Live Curve SSR T. RMS

A: Frequency Response, Magn dB re 20.00µPa

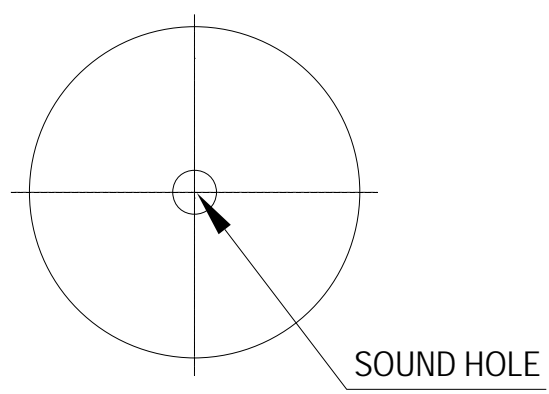
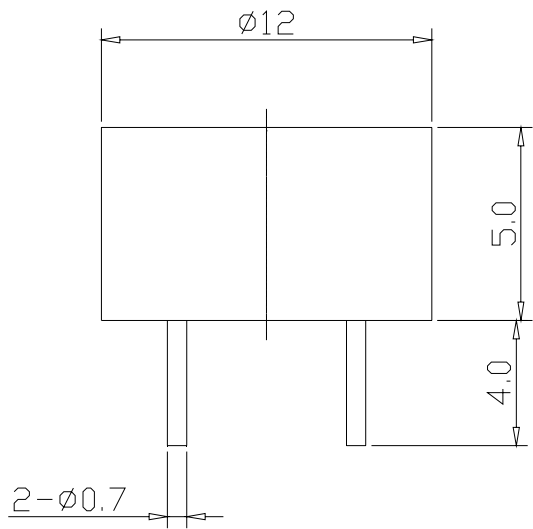
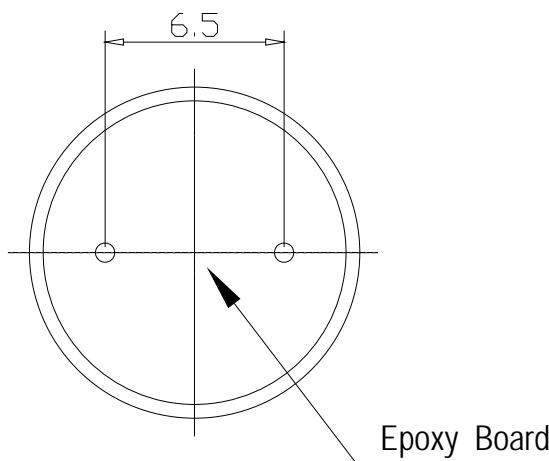


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Mode: SSR



REV NO.	REVISION NOTE	APPROVAL	DATE
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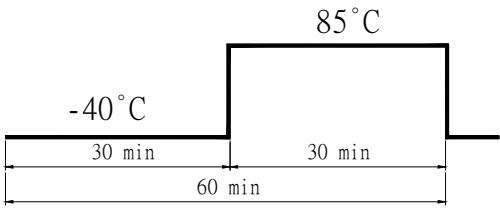


WAVE SOLDER AND WASH NOT ALLOWED

TITLE:	PIEZO BUZZER	DRAWN:	<i>Richard</i> 2009/06/11	SCALE:	3:1	SHEET:	1 : 1
PART NO.	AZ-1248E-P	DESIGNED:	R & D DEP.	UNITS:	mm	TOLERANCE ± 0.3	
DWG NO.	HS-09061101	CHECKED:		UNLESS OTHERWISE SPECIFIED:			
		APPROVAL:		ONE PLACE DECIMAL ± ***			
		MATERIAL:	Black MPP0	TWO PLACE DECIMAL ± ***			
				THREE PLACE DECIMAL ± ***			

A & B Components

4. Reliability Test

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.	After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L S.P.L shall be 78dB or more.
02	Low temp.Storage life	The part shall be capable of withstanding a storage Temperature of -40°C for 96 hours.	
03	Temp. cycle	<p>The part shall be subjected 10 cycles. One cycle shall consist of;</p>  <p>The diagram shows a temperature cycle with two horizontal segments. The first segment is at -40°C and is labeled '30 min'. The second segment is at 85°C and is also labeled '30 min'. A bracket below the entire cycle indicates a total duration of '60 min'.</p>	
04	Temp./Humidity cycle	The part shall be subjected with 90~95% R.H at +40°C for 96 hours.	
05	Free drop	The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes (X.Y.Z). (a total of 9 times).	
06	Lead Strength	Pull lead with a force of 10N, on the direction of the lead axis for 10 :10±1 sec	
07	Vibration	<p>The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute.</p> <p>Total peak amplitude shall be 1.52mm (9.3G). The vibration test shall consist of 2 hours per plane in each three mutually perpendicular planes for a total time of 6 hours.</p>	

5.SOLDERING CONDITION

Recommend using constant branding iron in 30W, and in temperature range 320±10°C.

Soldering time 2 seconds.