SPECIFICATION FOR APPROVAL

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

Approved By	Checked By	Made By

A & B Components

http://www.speaker-tw.com

1. Specifications

AZ-1440E-P

Items		Units	Specifications	Conditions
01	Rated Voltage	Vp-p	5	(square wave)
02	Operating Voltage	Vp-p	1.0~20.0	
03	Rated Current	mA(Max)	5	
04	Sound Output Level	dBA(Min)	80	At 5Vp-p ,4.0KHz / 10cm
05	Resonant Frequency	Hz	4000	
06	Capacitance	pF	13000±30%	At 120Hz
07	Operating Temp.	℃	-30 ~ +75	
08	Storage Temp.	℃	-40 ~ +85	
09	Weight	g	1	

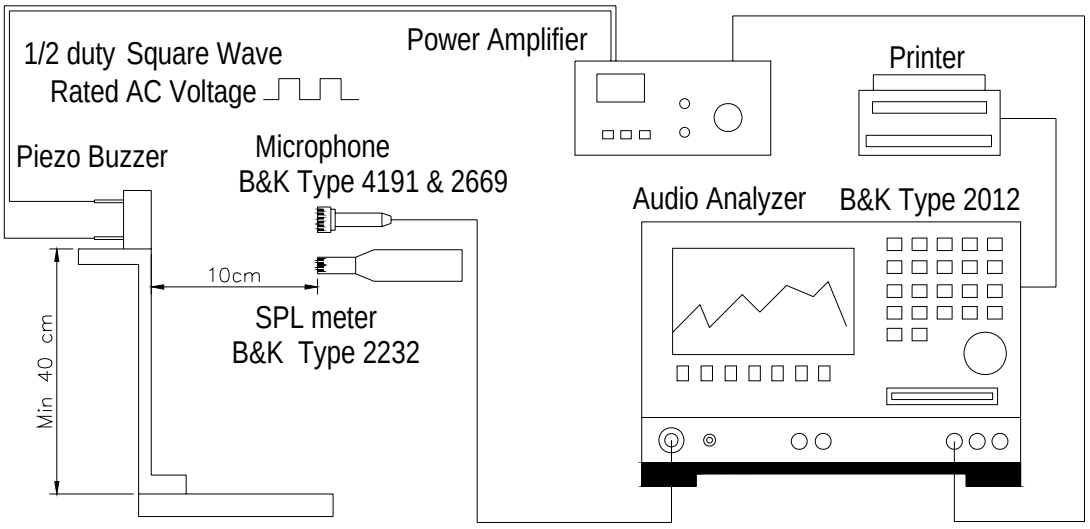
2. Measuring Method

2-1. Test Condition

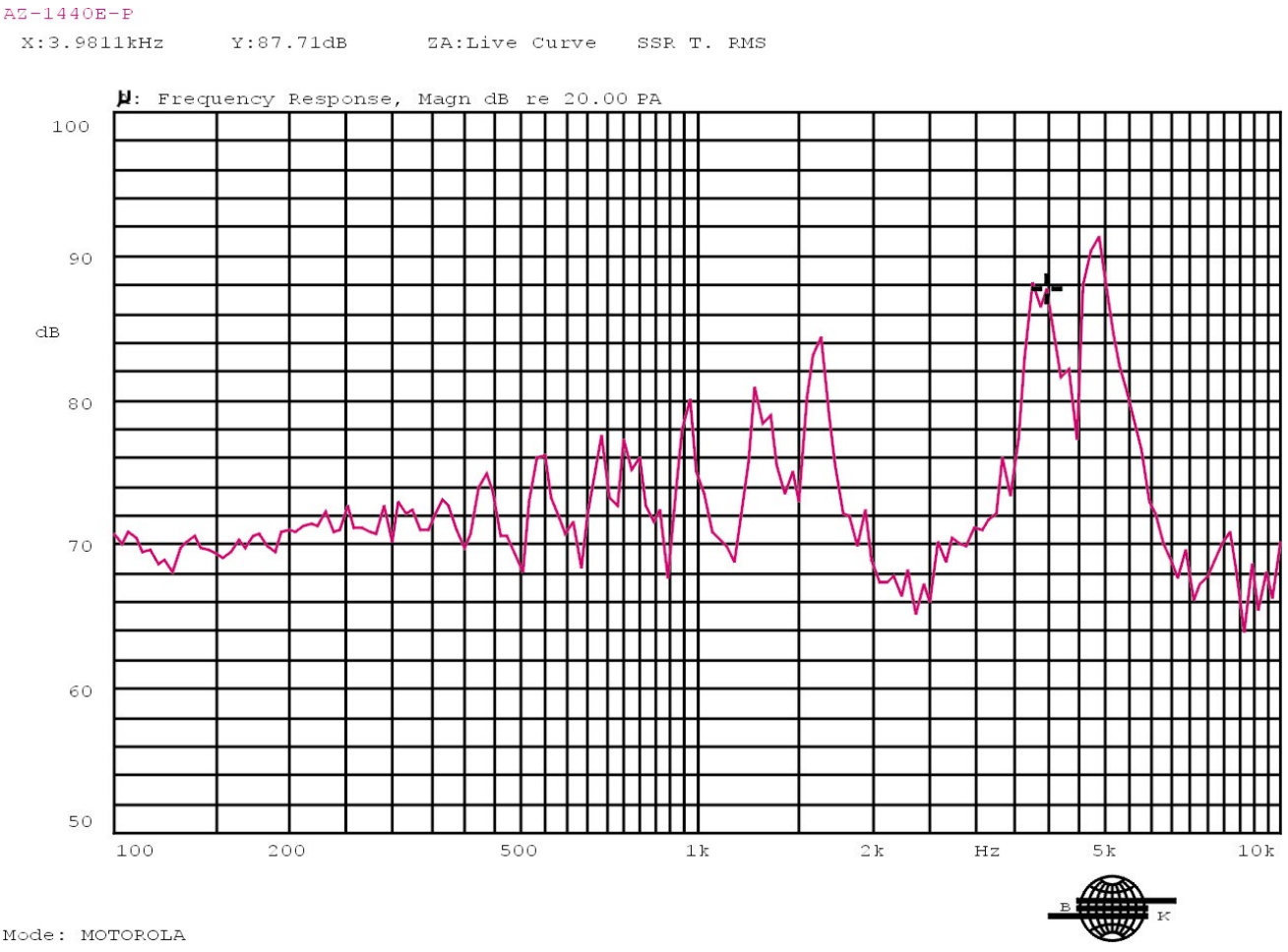
STANDARD
Temperature : 15 ~ 35℃
Relative humidity : 25% ~ 85%,
Atmospheric pressure : 860mbar to 1060mbar.

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

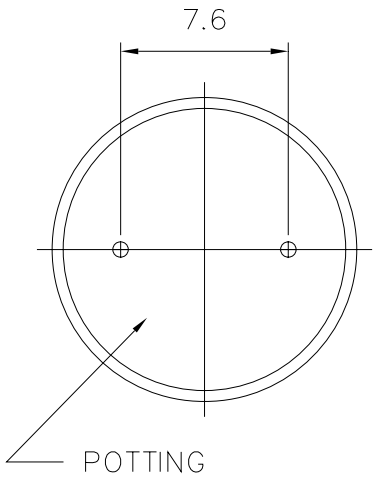
2-2. Standard Test Fixture

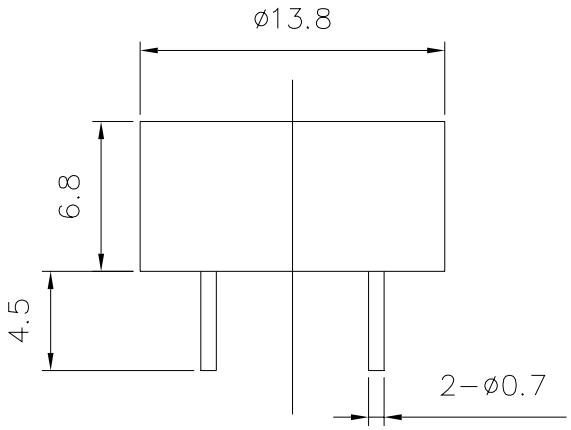


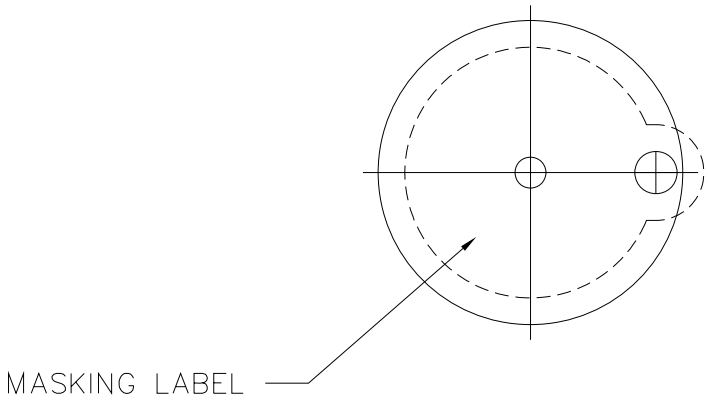
2-3. Frequency Response Curve



REV NO.	REVISION NOTE	APPROVAL	DATE



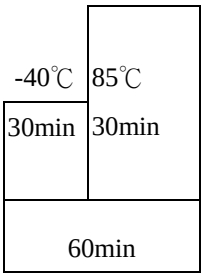




TITLE: PIEZO BUZZER		DRAWN: Richard 04/16/2001	SCALE: 3:1	SHEET: 1 : 1
		DESIGNED: R & D DEP.	UNITS: mm	
PART NO. AZ−1440E−P	1	CHECKED:	TOLERANCE ± 0.5	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL ± *** TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***	
DWG NO. DTP−1008	REV	MATERIAL: NORYL		

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℃ 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 74dB or more.
02	Low temp.Storage life	The part shall be capable of withstanding a storage Temperature of -40℃ for 96 hours.	
03	Temp. cycle	The part shall be subjected 5 cycles. One cycle shall consist of;  	
04	Temp./Humidity cycle	The part shall be subjected with 90~95% R.H at +40℃ 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	The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute. 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.	