SPECIFICATION FOR APPROVAL

Product	PIEZO BUZZER (EXTERNAL)
Part No.	AZ-1440E-W
Customer Approval	

Approved By	Checked By	Made By

A & B Components

http://www.speaker-tw.com

AZ-1440E-W

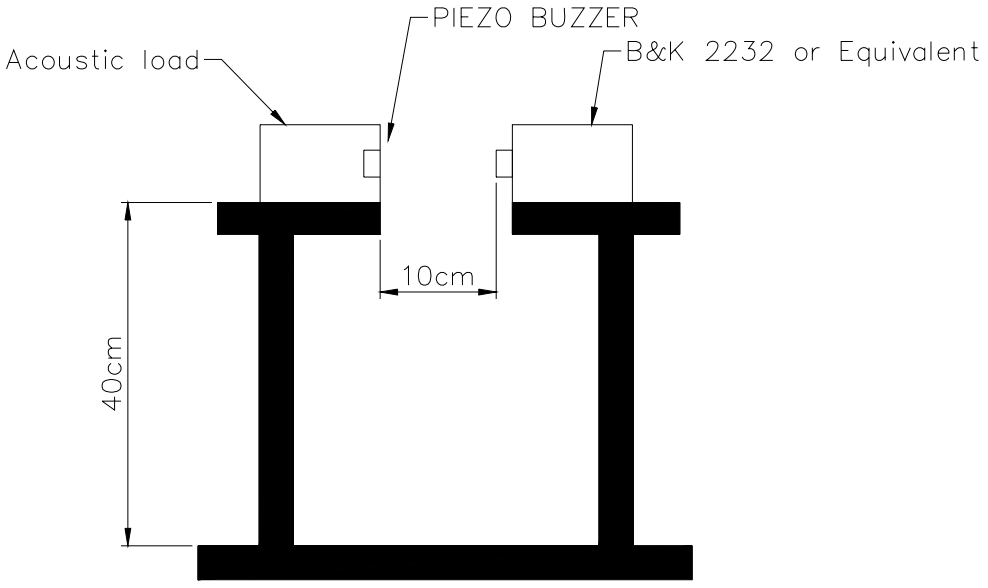
Items		Units	Specifications	Conditions
01	Rated Voltage	Vp-p	10	Square Wave
02	Operating Voltage	Vp-p	1~30	
03	Rated Current	mA(Max)	5	10Vp-p / 4.0KHz
04	Sound Output At 10cm	dBA(Min)	80	At 10Vp-p / 4.0KHz
05	Resonant Frequency	Hz	4000±500	
06	Capacitance at 1KHz	pF	15000±30%	
07	Operating Temp.	℃	-20 ~ +80	
08	Storage Temp.	℃	-30~ +85	
09	Weight	g	1	

Measurement Condition

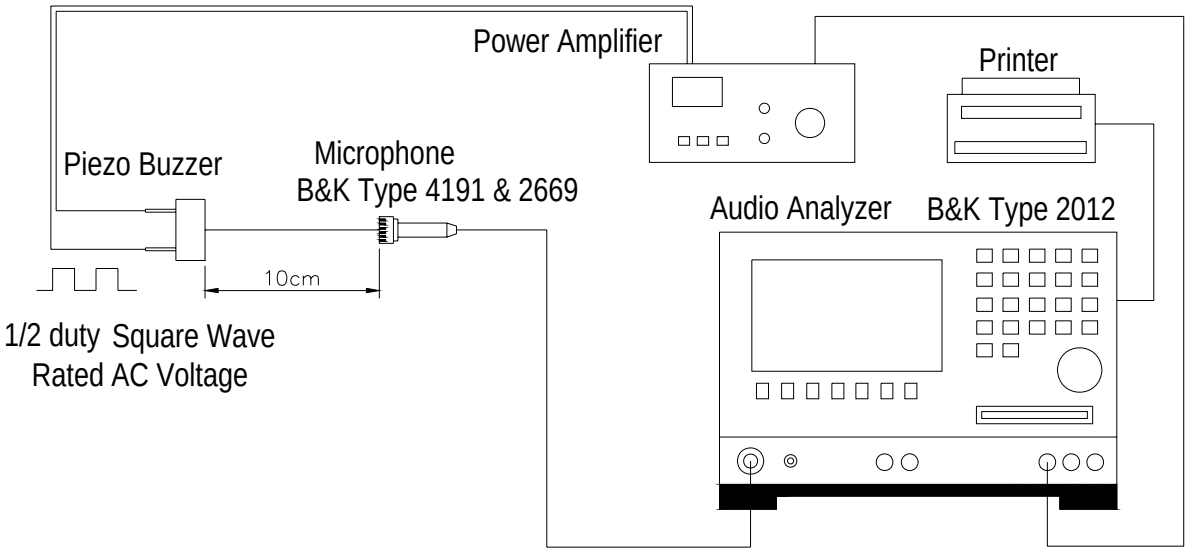
Test and measurement will be carried out under normal condition of temperature
within 5℃to 35℃,relative humidity within 45% to 85% and air pressure of 860mbar to 1060mbar.
Should uncertainly arise in data obtained from the above atmosphere, control of temperature
At 20℃±2℃ and relative humidity within 60% and 70%, with air pressure remaining unchanged,
To be enforced.

Value Applying Rated Voltage

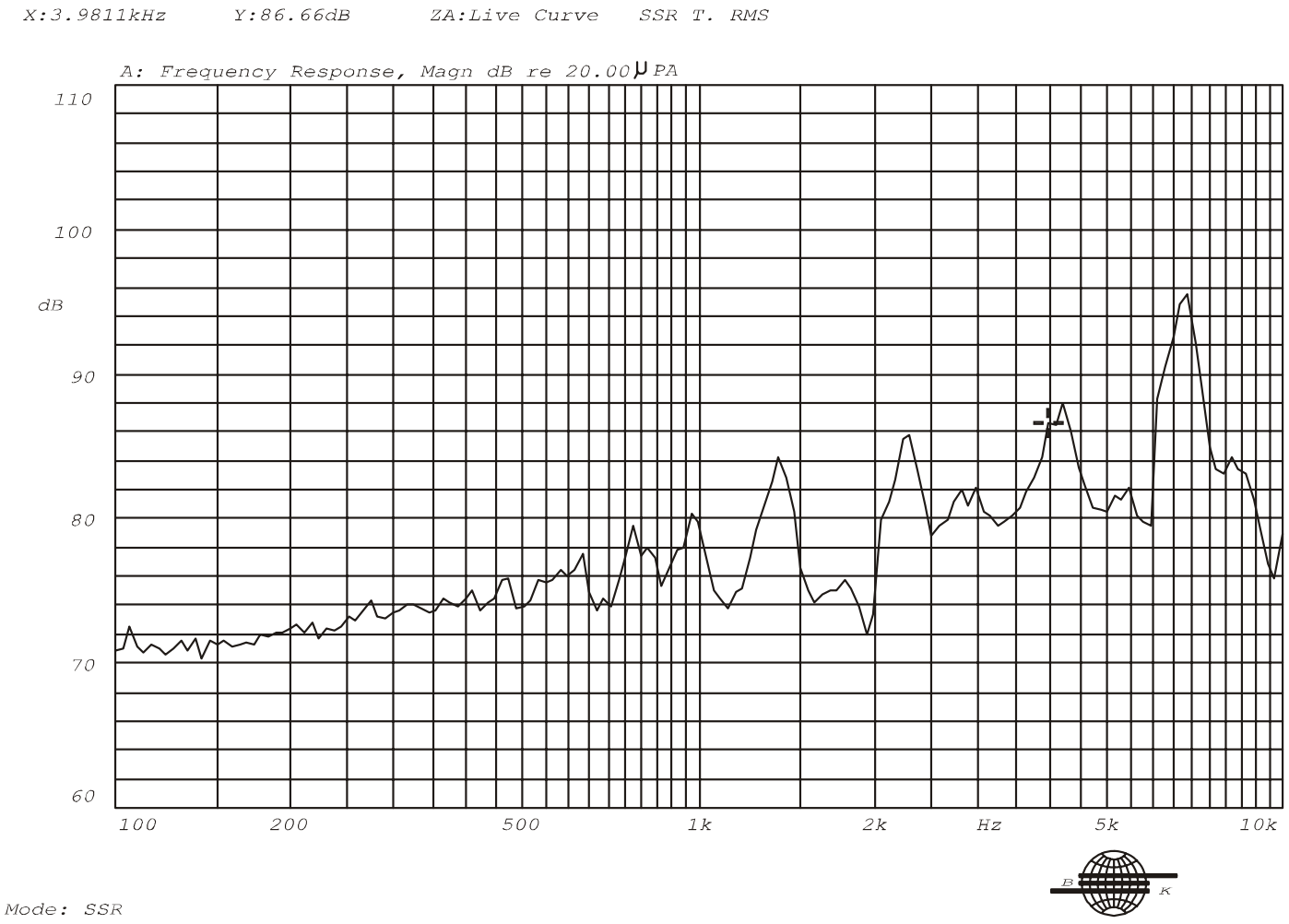
STANDARD TEST FIXTURE



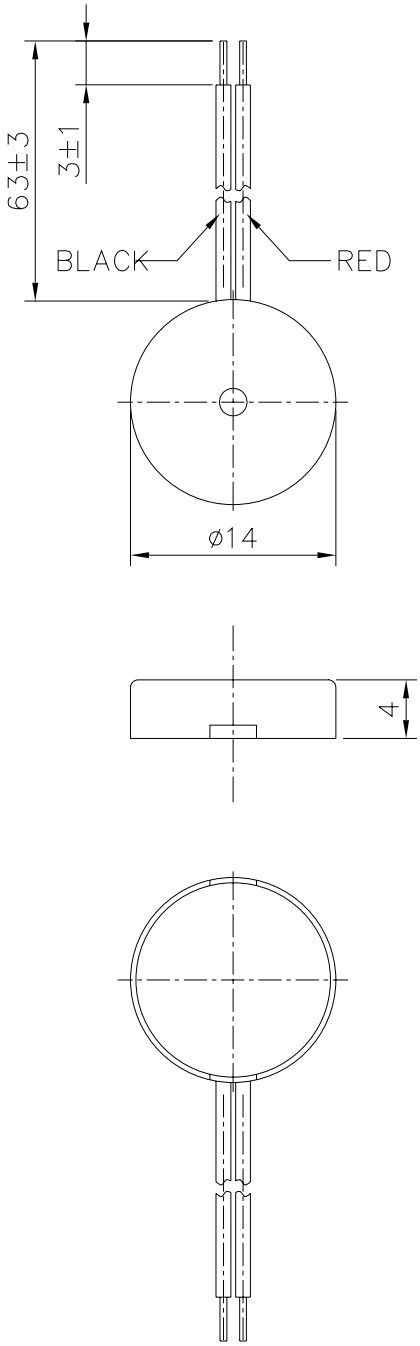
Standard test condition of piezo buzzer



Frequency Response Curve



REV NO.	REVISION NOTE	APPROVAL	DATE



TITLE: PIEZO BUZZER		DRAWN: Richard 2003/06/18	SCALE: 2:1	SHEET: 1 of 1
PART NO. AZ-1440E-W	1	DESIGNED: R & D DEP.	UNITS: mm	
		CHECKED:	TOLERANCE ± 0.5	
DWG NO. DPT-1016		APPROVAL:	UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL ± *** TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***	
	REV	MATERIAL: MPPO		

A & B Components

RELIABILITY TEST

AZ-1440E-W

Item		Conditions	Evaluation standard
01	Low Temp. Storage Test	A℃±2℃ ,240Hr	(S.P.L)Test before numerical ±10dB (Frequency)Test before numerical ±10% (Current)Test before numerical ±10% (No crake is allowed on the part surface after Free drop test) ● After the test ,the part shall meet the specifications without any degradation in appearance and performance
02	High Temp. Storage Test	B℃±2℃ RH50% ,240Hr	
03	Temp./Humidity Storage Test	40℃±2℃ , RH90-95% 240Hr	
04	Thermal Shock Test	A℃±2℃(1Hr)→ ,20℃±2℃(1Hr) B℃±2℃(1Hr)→ ,20℃±2℃(1Hr)10 cycle	
05	Vibration Test	10-55Hz/1min amplitude1.5mm,X,Y,Z,3 directions	
06	Mechanical Shock Test	+100G,Sine wave, XYZ , 3 impacts per axis	
07	Free Drop Test	The part shall be dropped freely from a height of 75 cm onto concrete 1 time in 2 axes (total 4 times)	
08	Life Burning Test	The part shall be subjected to 1000 hrs in the room temp with rated voltage applied	
09	Lead Wire / Pin Pull Test	The Part checking standard : Following supplier's Spec. Finished–part checking Standard vertical Pull i)100g MIN 0.05mm Thickness of ceramic ii)300g MIN 0.1mm≦Thickness of ceramic b: Horizontal Pull i)700g MIN	

Remark : "A" means Storage low temp. "B" means Storage high temp