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# SPECIFICATION FOR APPROVAL

Product	PIEZO BUZZER
Part No.	AZ-1032E-W
Customer Approval	

Approved By	Checked By	Made By



**A & B Components**

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

# AZ-1032E-W

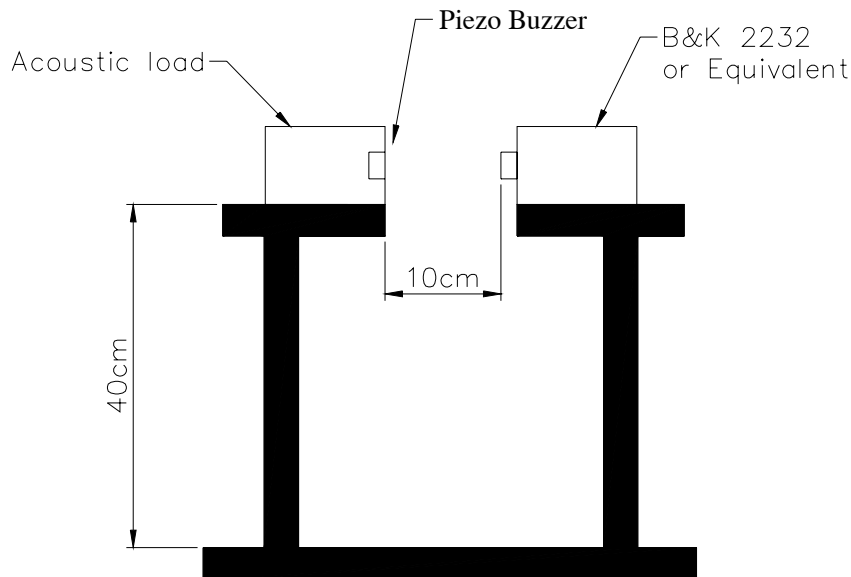
Items		Units	Specifications	Conditions
01	Rated Voltage	Vp-p	10	Square Wave
02	Operating Voltage	Vp-p	1-30	
03	Rated Current	mA(Max)	5	10Vp-p / 3.2KHz
04	Sound Output At 10cm	dBA(Min)	80	At 10Vp-p / 3.2KHz
05	Resonant Frequency	Hz	3200	
06	Capacitance at 120Hz	pF	<b>11000±30%</b>	
07	Operating Temp.	°C	-20 ~ +60	
08	Storage Temp.	°C	-20 ~ +70	
09	Weight	g	1	

## Measurement Condition

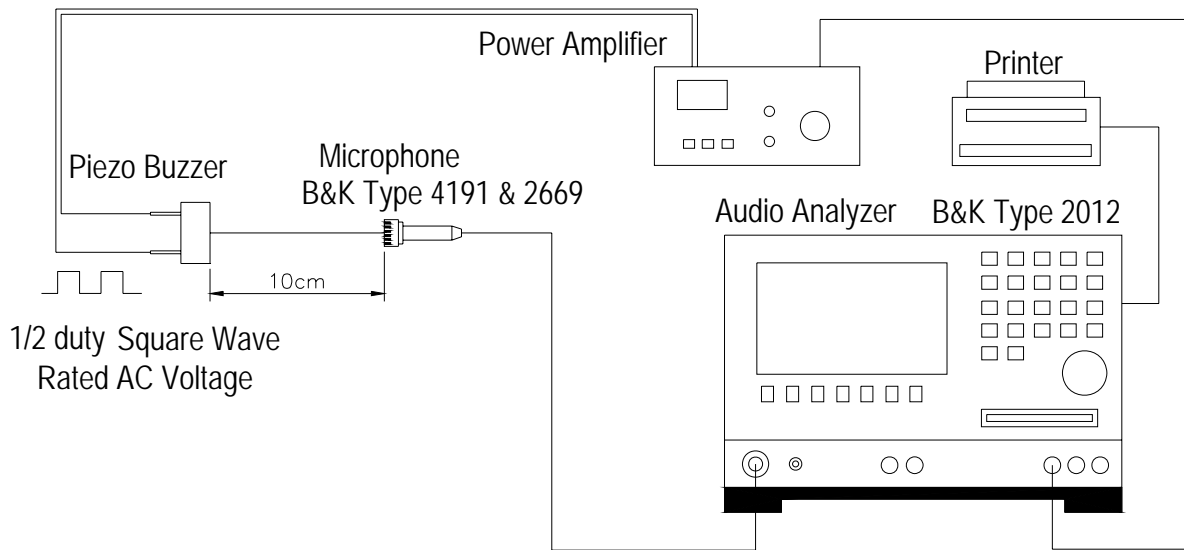
Test and measurement will be carried out under normal condition of temperature within 5°C to 35°C, relative humidity within 45% to 85% and air pressure of 860mbar to 1060mbar. Should uncertainly arise in data obtained from the above atmosphere, control of temperature At 20°C±2°C and relative humidity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

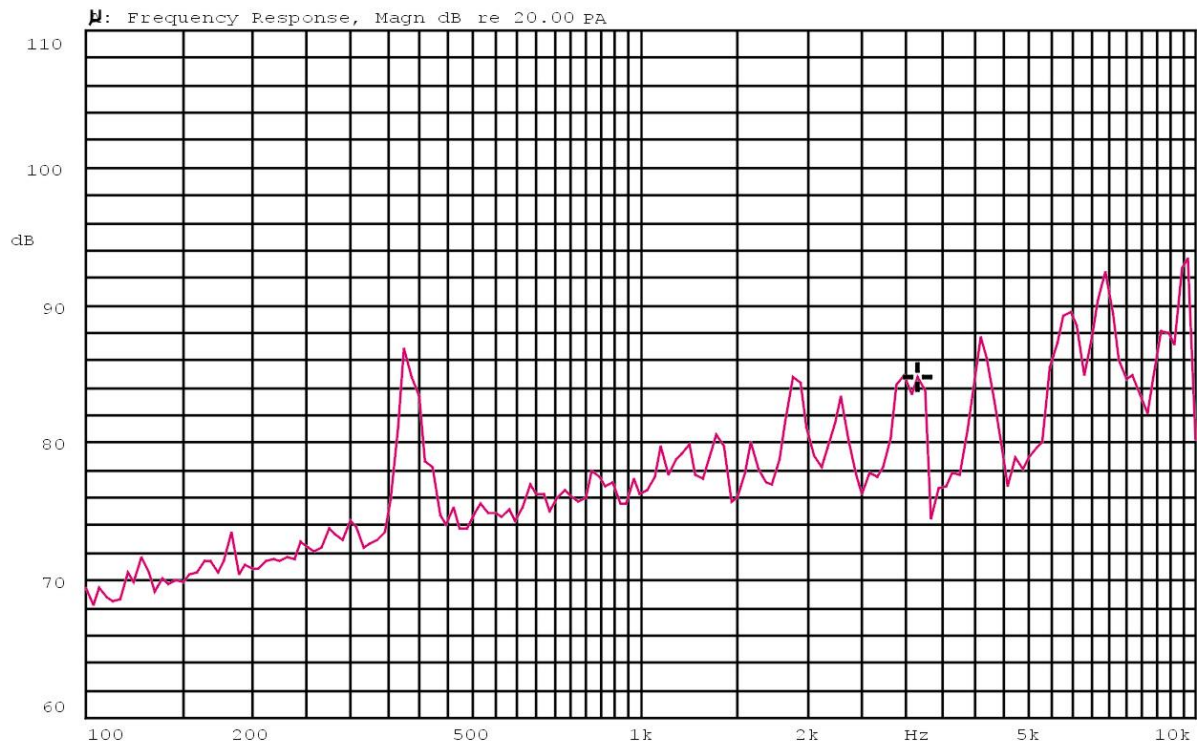
A3-1032E-W

X:3.1623kHz

Y:84.85dB

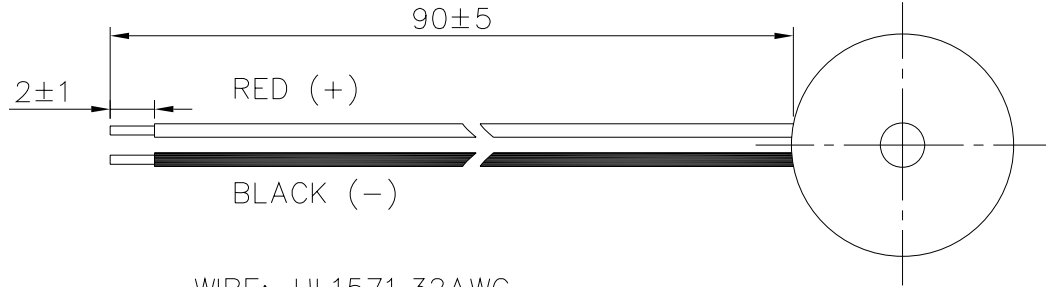
EA:Live Curve

SSR T. RMS

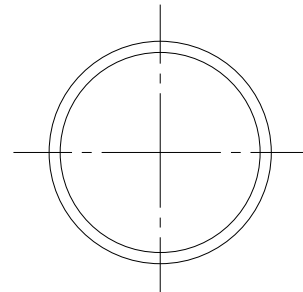
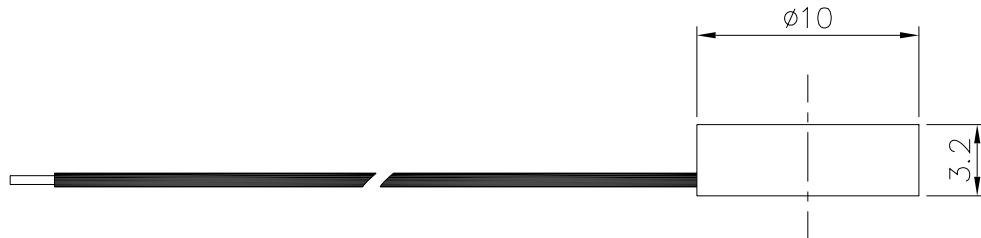


Mode: SSR





WIRE: UL1571,32AWG.



TITLE: <i>PIEZO BUZZER</i>		DRAWN: <i>Richard</i> 06/15/2004	SCALE: 3:1	SHEET: 1 of 1
PART NO. <i>AZ-1032E-W</i>		DESIGNED: <i>R &amp; D DEP.</i>	UNITS: <i>mm</i>	
DWG NO. <i>DTP-1070</i>		CHECKED:	TOLERANCE $\pm 0.5$	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED:	
REV	1	MATERIAL: <i>ABS</i>	ONE PLACE DECIMAL $\pm$ ***	
			TWO PLACE DECIMAL $\pm$ ***	
			THREE PLACE DECIMAL $\pm$ ***	

*A & B Components*

# RELIABILITY TEST

## AZ-1032E-W

Item		Conditions	Evaluation standard
01	Low Temp. Storage Test	A°C±2°C ,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°C±2°C RH50% ,240Hr	
03	Temp./Humidity Storage Test	40°C±2°C , RH90-95% 240Hr	
04	Thermal Shock Test	A°C±2°C (1Hr)→ ,20°C±2°C (1Hr) B°C±2°C (1Hr)→ ,20°C±2°C (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