

---

# SPECIFICATION FOR APPROVAL

Product	PIEZO BUZZER (EXTERNAL)
Part No.	AZ-2440E-P
Customer Approval	

Approved By	Checked By	Made By



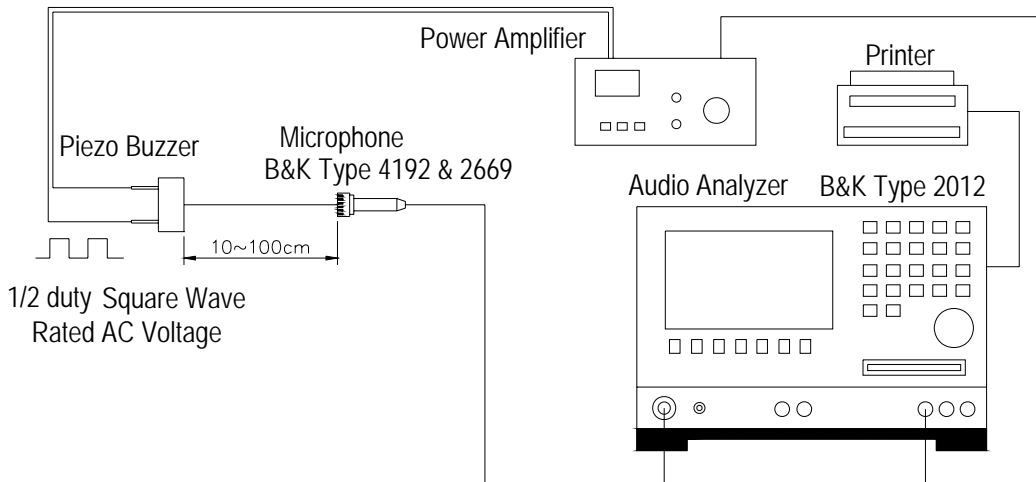
**A & B Components**

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

# AZ-2440E-P

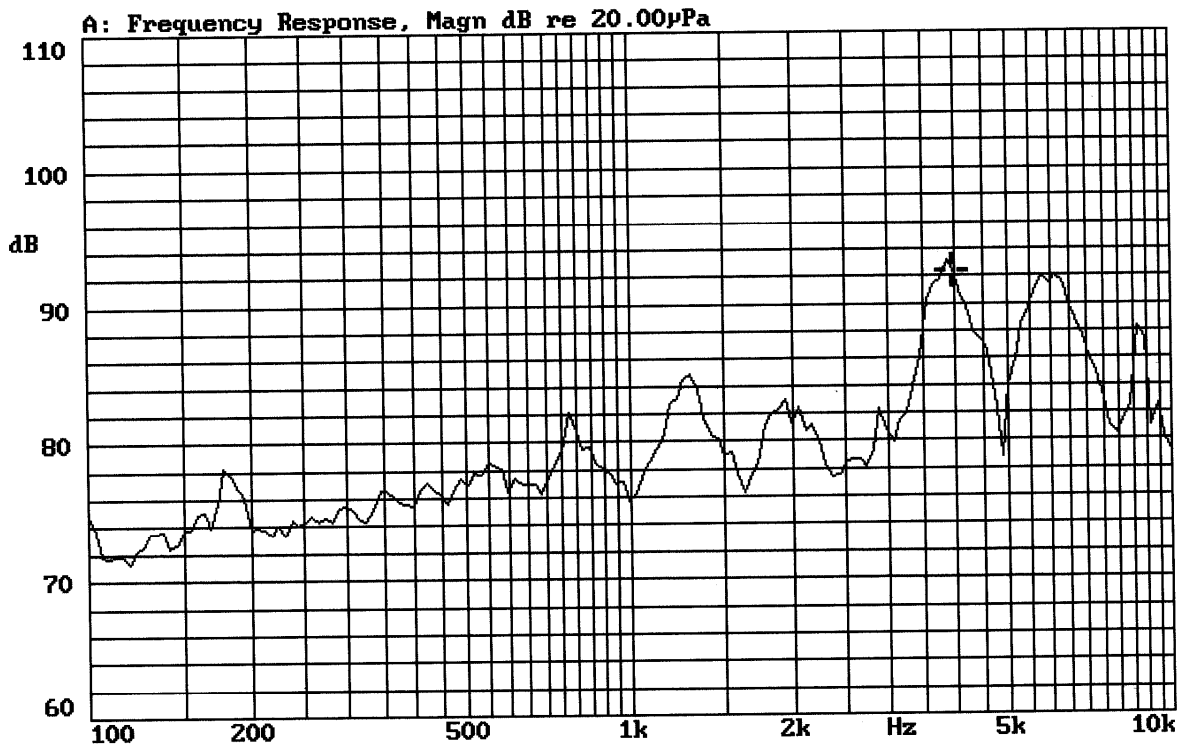
Items		Units	Specifications	Conditions
01	Rated Voltage	Vp-p	9	Square Wave
02	Operating Voltage(Max)	Vp-p	1-30	
03	Current Consumption(max)	mA	8	
04	Sound Pressure Level	dB	85	At 4 KHz/10cm
05	Resonant Frequency	Hz	4000±500	
06	Operating Temp.	°C	-20 ~ +70	
07	Storage Temp.	°C	-30 ~ +80	
08	Capacitance	pF	17,000 ± 30%	At 120Hz
09	Weight	g	3	

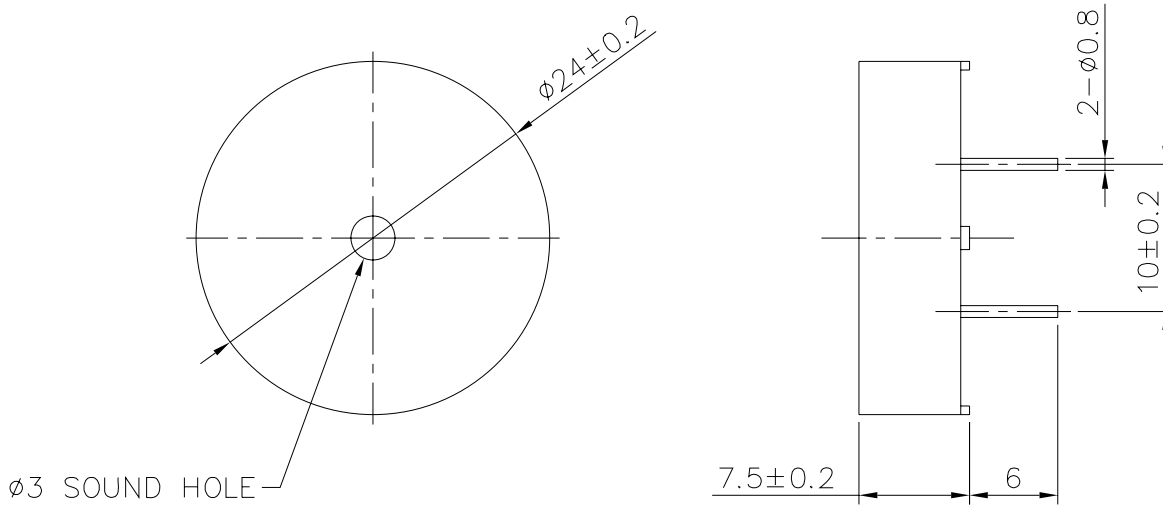
## Standard test condition of piezo buzzer



## Frequency Response Curve.

MODEL:AZ-2440E-P  
 X:3.9811kHz    Y:92.50dB    ZA:Live Curve    SSR T. RMS





TITLE: <i>PIEZO BUZZER EXTERNAL</i>		DRAWN: <i>Richard</i> 07/25/2001	SCALE: 2:1	SHEET: 1 : 1
PART NO. <i>AZ-2440E-P</i>	<b>1</b>	DESIGNED: <i>R &amp; D DEP.</i>	UNITS: <i>mm</i>	
DWG NO. <i>DPT-1006</i>		CHECKED:	TOLERANCE ± 0.3	
	REV	APPROVAL:	UNLESS OTHERWISE SPECIFIED:	
		MATERIAL: <i>ABS</i>	ONE PLACE DECIMAL ± ***	
			TWO PLACE DECIMAL ± ***	
			THREE PLACE DECIMAL ± ***	

*A & B Components*

# RELIABILITY TEST

## AZ-2440E-P

Item	Conditions	Evaluation standard
01 Low Temp. Storage Test	A°C±2°C ,240Hr	(S.P.L)Test before numerical ±10dB *wrong (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