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# SPECIFICATION FOR APPROVAL

Product	PIEZO BUZZER
Part No.	AZ-4411E-C
Customer Approval	

Approved By	Checked By	Made By



**A & B Components**

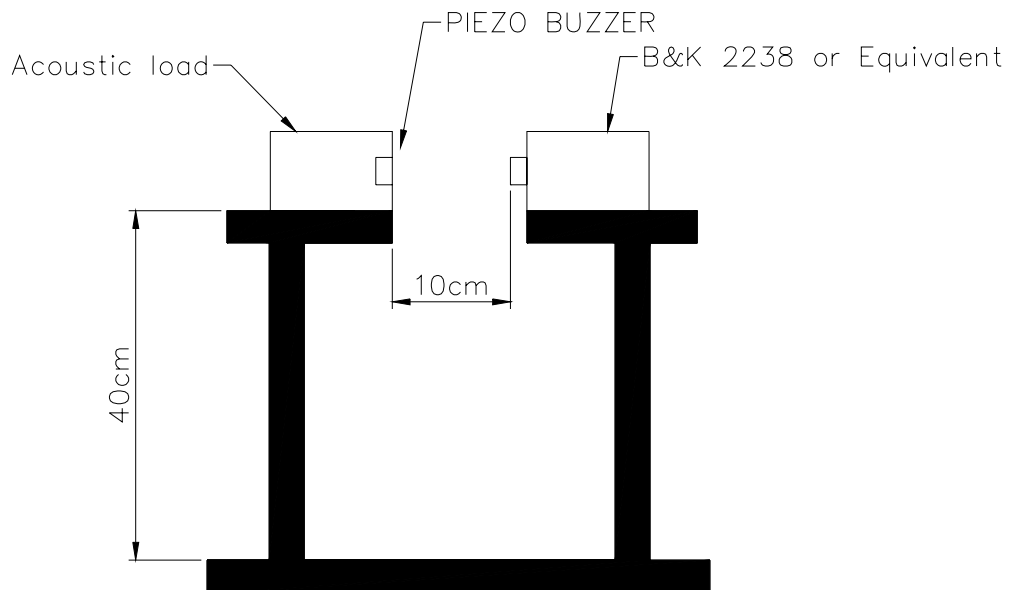
**<http://www.speaker-tw.com>**

# AZ-4411E-C

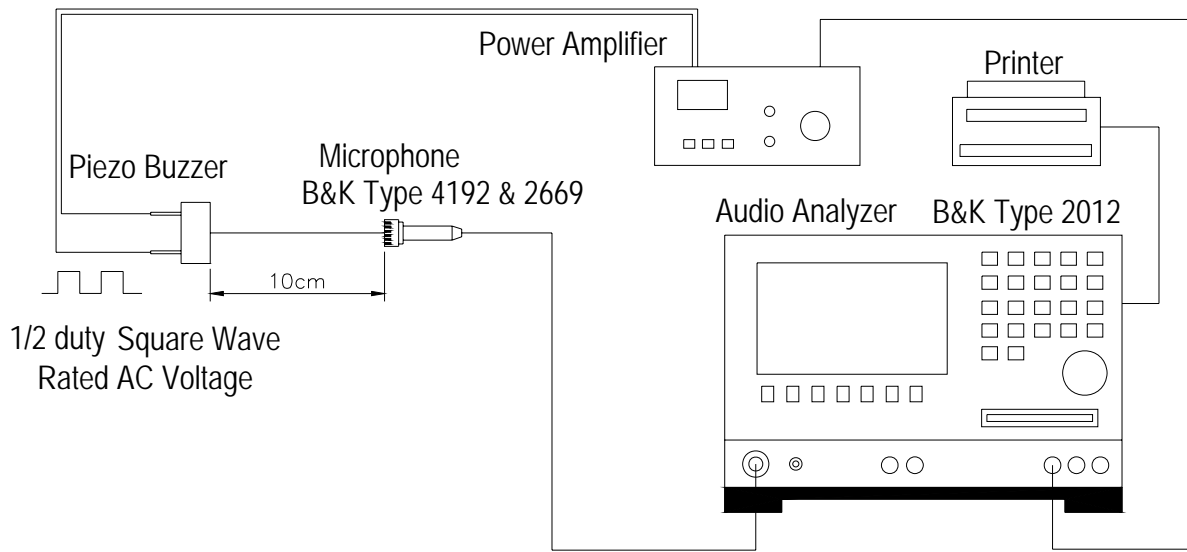
Items		Units	Specifications	Conditions
01	Rated Voltage	Vp-p	10	Square Wave
02	Operating Voltage	Vp-p	3~30	
03	Rated Current	mA(Max)	11	10Vp-p / 1.1KHz
04	Sound Output At 10cm	dBA(Min)	85	At 10Vp-p / 1.1KHz
05	Resonant Frequency	Hz	1100±300	
06	Capacitance at 120Hz	pF	77000±30%	
07	Operating Temp.	°C	-20 ~ +60	
08	Storage Temp.	°C	-30 ~ +70	
09	Weight	g	10	

Value Applying Rated Voltage

## STANDARD TEST FIXTURE



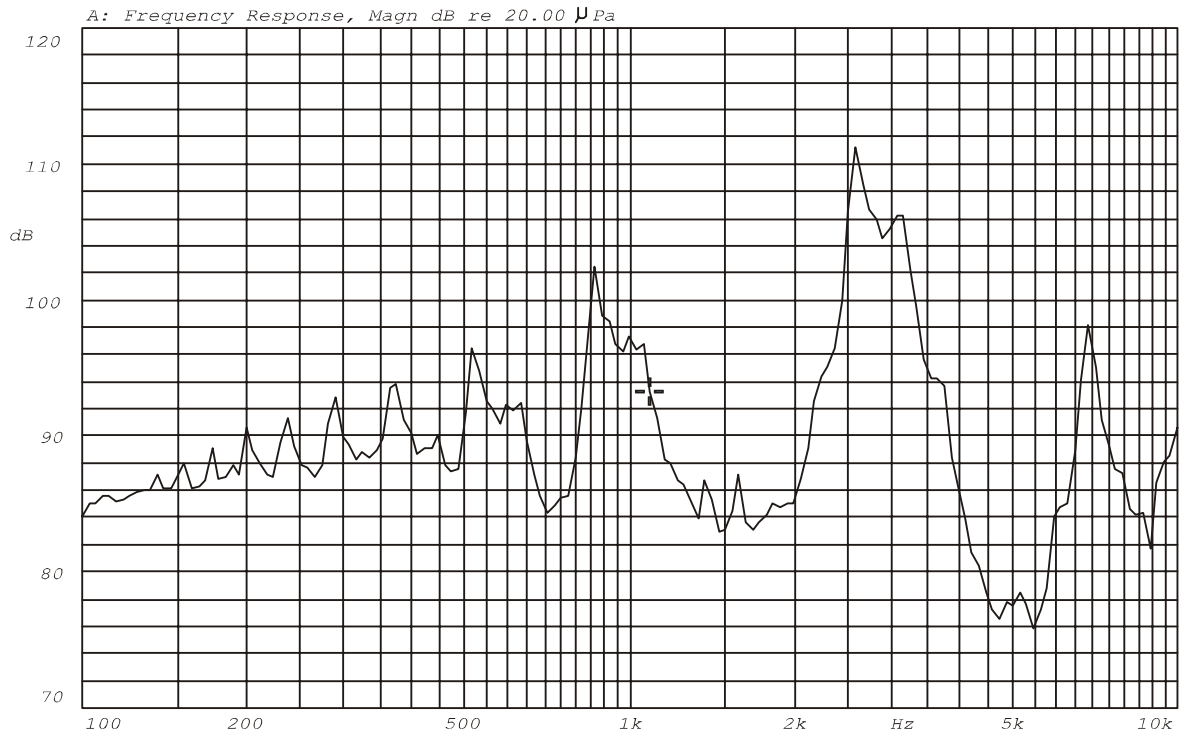
## Standard test condition of piezo buzzer



## Frequency Response Curve

MODEL:AZ-4411E-C

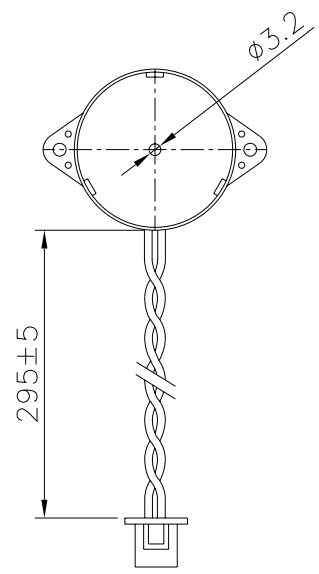
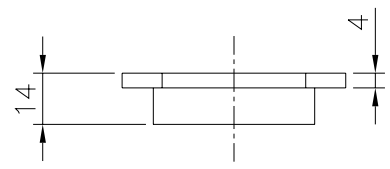
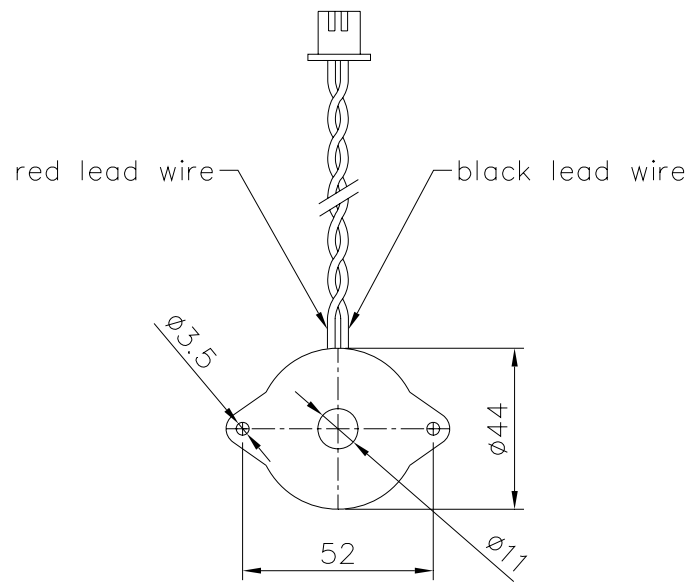
X:1.0902kHz Y:93.20dB ZA:Live Curve SSR T. RMS



Mode: SSR



REV NO.	REVISION NOTE	APPROVAL	DATE
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NOTES:  
 1. WIRE SPEC. UL1007 #26  
 2. TERMINAL SPEC. A2501TOP-2 XH2.5  
 HOUSING : A2501H02-2P XH2.5

TITLE:	PIEZO BUZZER	DRAWN:	Richard 09/25/2001	SCALE:	1:2	SHEET:	1 of 1
PART NO.	AZ-4411E-C	DESIGNED:	R & D DEP.	UNITS:	mm	TOLERANCE	± 0.5
DWG NO.	DTP-1068	CHECKED:		UNLESS OTHERWISE SPECIFIED:	ONE PLACE DECIMAL ± ***	TWO PLACE DECIMAL	± ***
	REV	APPROVAL:		THREE PLACE DECIMAL	± ***		
		MATERIAL:	ABS				

A & B Components

# RELIABILITY TEST

## AZ-4411E-C

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