
SPECIFICATION FOR APPROVAL

Product	PIEZO BUZZER
Part No.	AZ-1245E-P
Customer Approval	

Approved By	Checked By	Made By



A & B Components

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

AZ-1245E-P

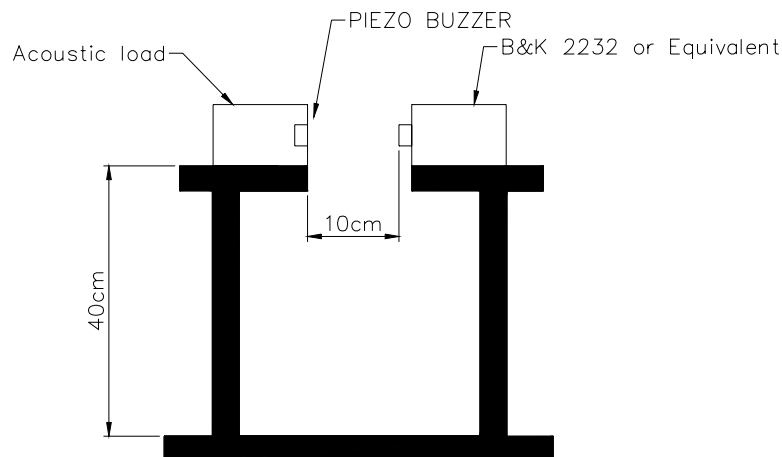
Items		Units	Specifications	Conditions
01	Rated Voltage	Vp-p	12	Square Wave
02	Operating Voltage	Vp-p	3~30	
03	Rated Current	mA(Max)	12	12Vp-p / 4.5KHz
04	Sound Output At 10cm	dBA(Min)	80	At 12Vp-p / 4.5KHz
05	Resonant Frequency	Hz	4500±500	
06	Capacitance at 120Hz	pF	6000±30%	
07	Operating Temp.	°C	-20 ~ +70	
08	Storage Temp.	°C	-30 ~ +80	
09	Weight	g	2	

Measurement Condition

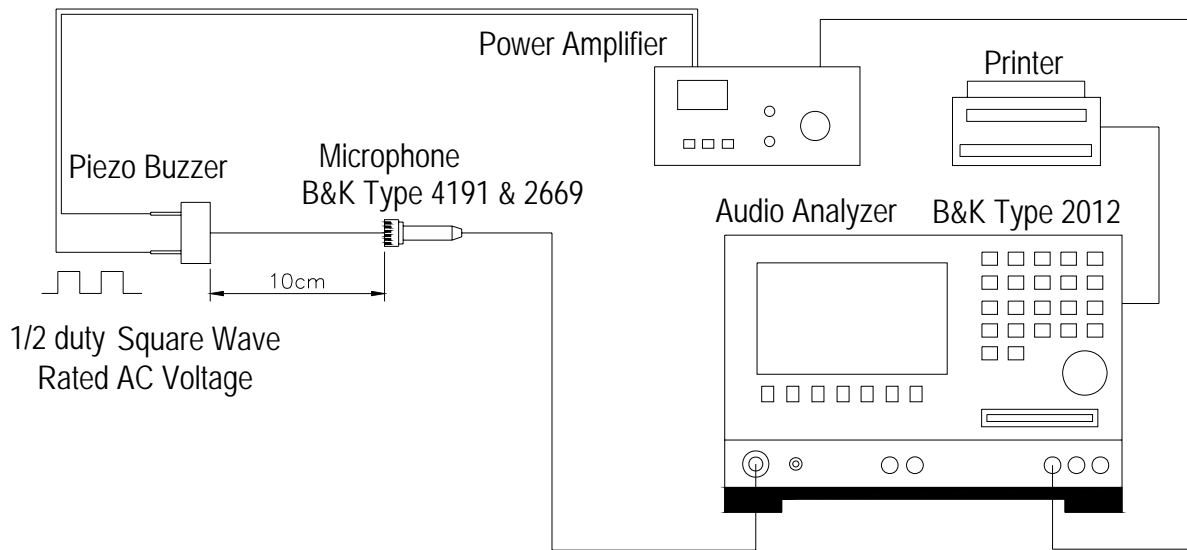
Test and measurement will be carried out under normal condition of temperature within 5°C to 35°C, relative humidity within 45% to 85% and air pressure of 860mbar to 1060mbar. Should uncertainly arise in data obtained from the above atmosphere, control of temperature At 20°C±2°C and relative humidity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

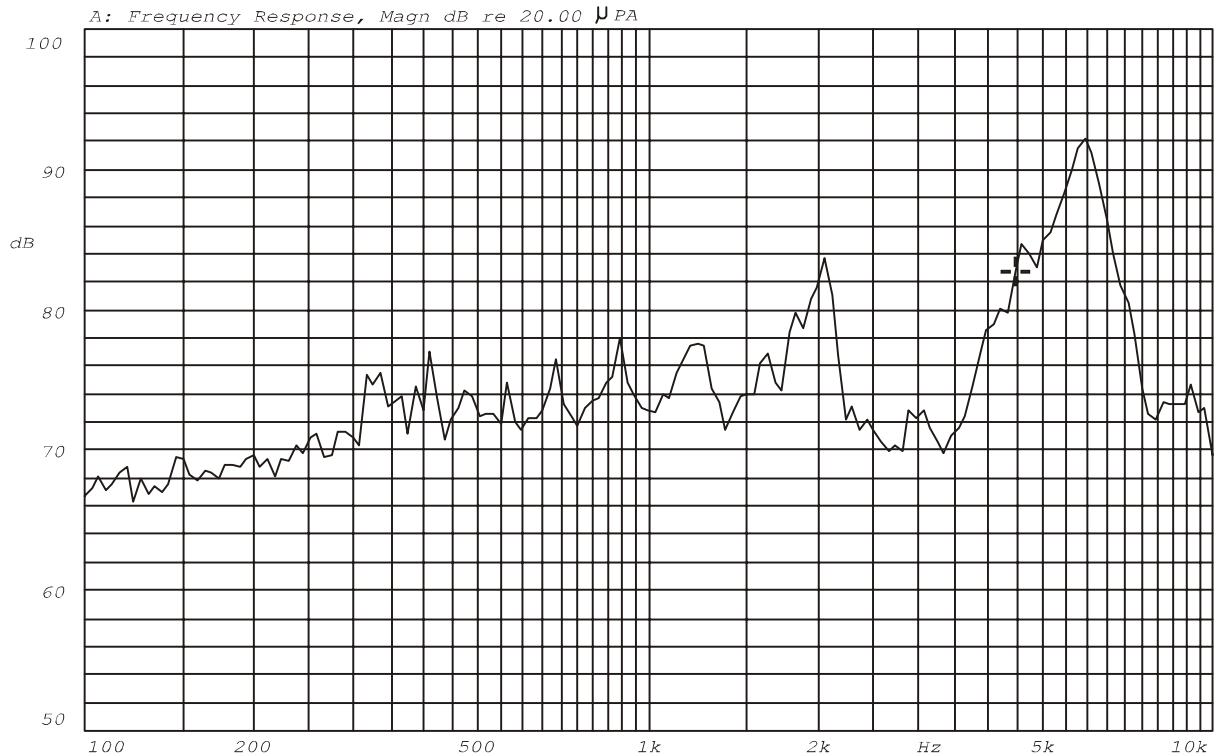
MODEL: 1245E-P

X: 4.4668kHz

Y: 82.72dB

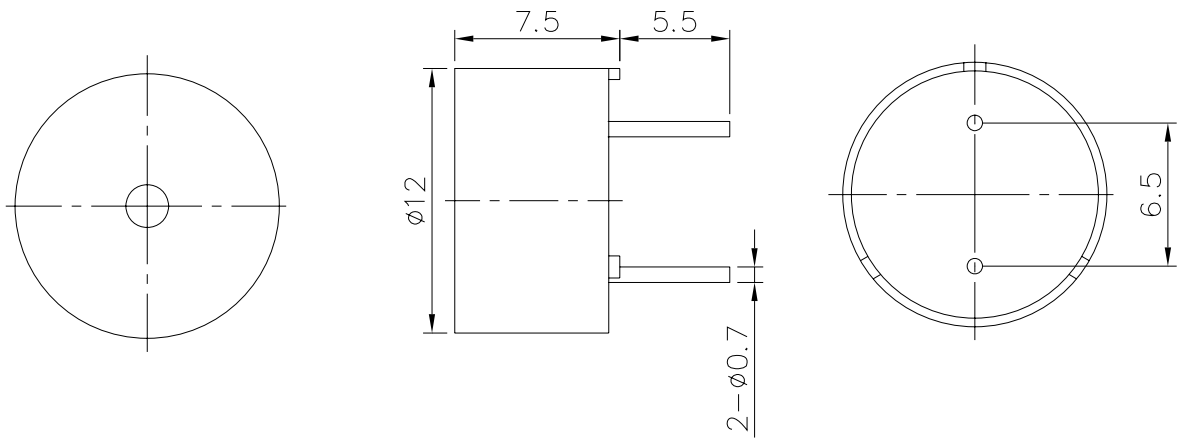
ZA: Live Curve

SSR T. RMS



Mode: SSR





TITLE: <i>PIEZO BUZZER</i>		DRAWN: <i>Richard</i> 09/24/2001	SCALE: 3:1	SHEET: 1 of 1
PART NO. <i>AZ-1245E-P</i>	1	DESIGNED: <i>R & D DEP.</i>	UNITS: <i>mm</i>	
DWG NO. <i>DTP-1070</i>		CHECKED:	TOLERANCE ± 0.5	
REV		APPROVAL:	UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL \pm *** TWO PLACE DECIMAL \pm *** THREE PLACE DECIMAL \pm ***	
		MATERIAL: <i>ABS</i>		

A & B Components

AZ-1245E-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