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# SPECIFICATION FOR APPROVAL

Product	PIEZO BUZZER (EXTERNAL)
Part No.	AZ-2320E-P
Customer Approval	

Approved By	Checked By	Made By



**A & B Components**

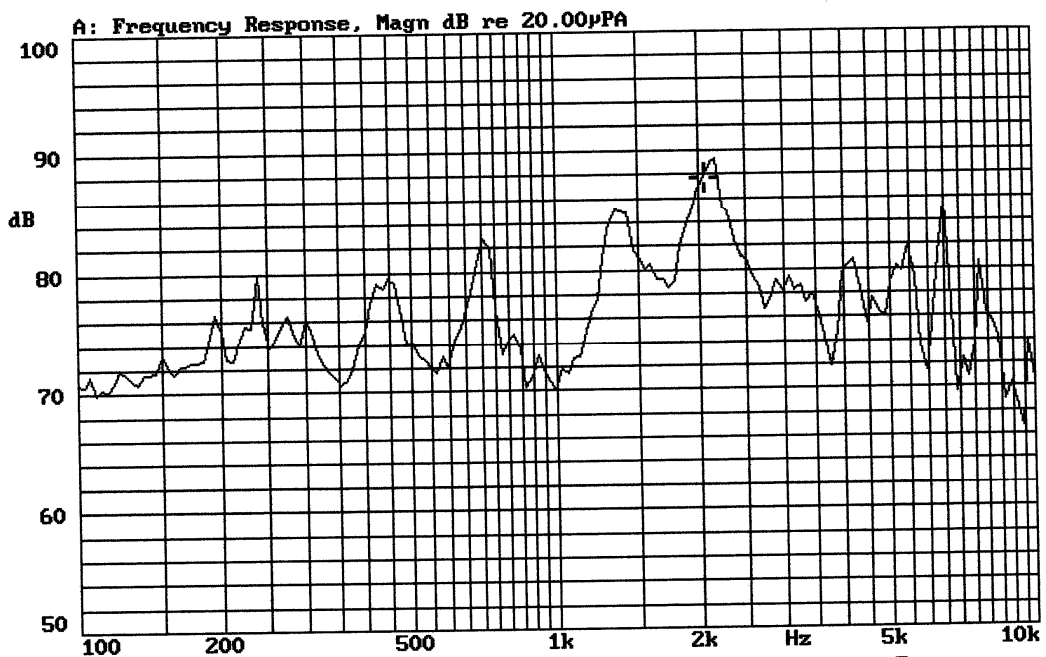
**<http://www.speaker-tw.com>**

# AZ-2320E-P

	Items	Units	Specifications	Conditions
01	Rated Voltage	Vp-p	10	Square Wave
02	Operating Voltage(Max)	Vp-p	1-30	
03	Current Consumption(max)	mA	9	
04	Sound Pressure Level	dB	85	At 10cm
05	Resonant Frequency	Hz	2048	
06	Operating Temp.	°C	-20 ~ +60	
07	Storage Temp.	°C	-30 ~ +70	
08	Capacitance	pF	24,000 ± 30%	At 120Hz
09	Weight	g	2	
10	Lead Pin Material	Phosphor Bronze		

Frequency Response Curve.

MODEL:AZ-2320E-P  
 X:2.0535kHz Y:87.74dB ZA:Live Curve SSR T. RMS



Mode: SSR

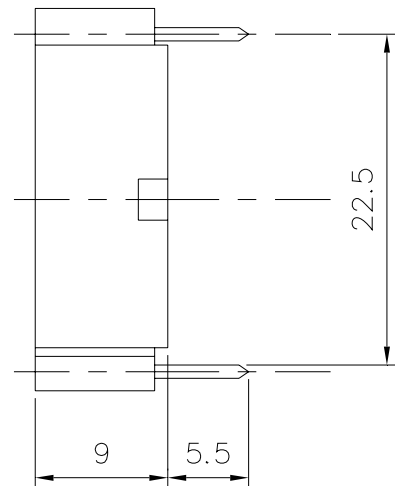
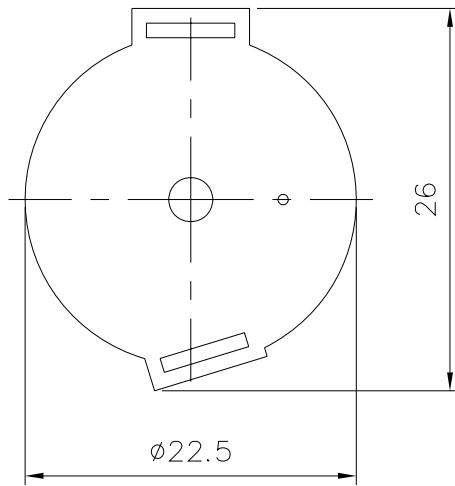


REV NO.

REVISION NOTE

APPROVAL

DATE



TITLE: *PIEZO BUZZER EXTERNAL*

DRAWN: *Richard* 04/23/2001

SCALE: 2:1 SHEET: 1 : 1

PART NO. *AZ-2320E-P*

DESIGNED: *R & D DEP.*

UNITS: *mm*

1

CHECKED:

TOLERANCE ± 0.5

DWG NO. *DTP-1016*

APPROVAL:

UNLESS OTHERWISE SPECIFIED:  
ONE PLACE DECIMAL ± \*\*\*

REV

MATERIAL: *ABS*

TWO PLACE DECIMAL ± \*\*\*

THREE PLACE DECIMAL ± \*\*\*

*A & B Components*

# RELIABILITY TEST

## AZ-2320E-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