
SPECIFICATION FOR APPROVAL

Product	PIEZO BUZZER
Part No.	AZ-2332E-A
Customer Approval	

Approved By	Checked By	Made By



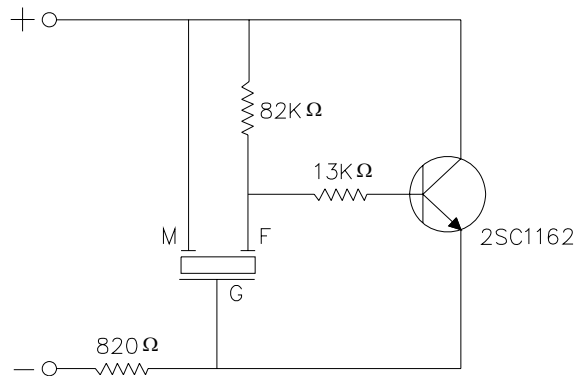
A & B Components

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

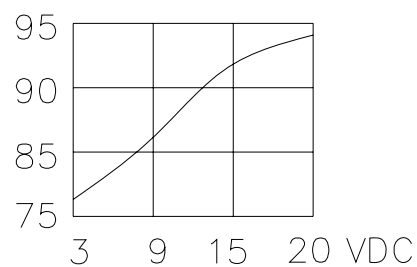
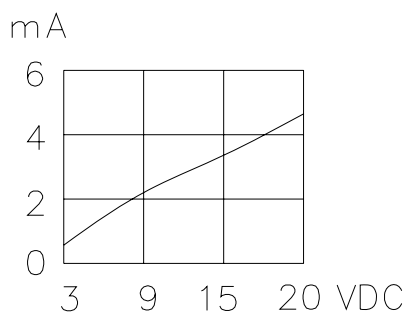
AZ-2332E-A

Items		Units	Specifications	Conditions
01	Rated Voltage	VDC	12	
02	Operating Voltage	VDC	3 ~ 20	
03	Rated Current	mA(Max)	12	
04	Sound Output At 30cm	dBA(Min)	80	At 12VDC / 3.2KHz
05	Resonant Frequency	Hz	3200±500	
06	Operating Temp.	°C	-20 ~ +85	
07	Storage Temp.	°C	-30 ~ +95	
08	Weight	g	1.3	

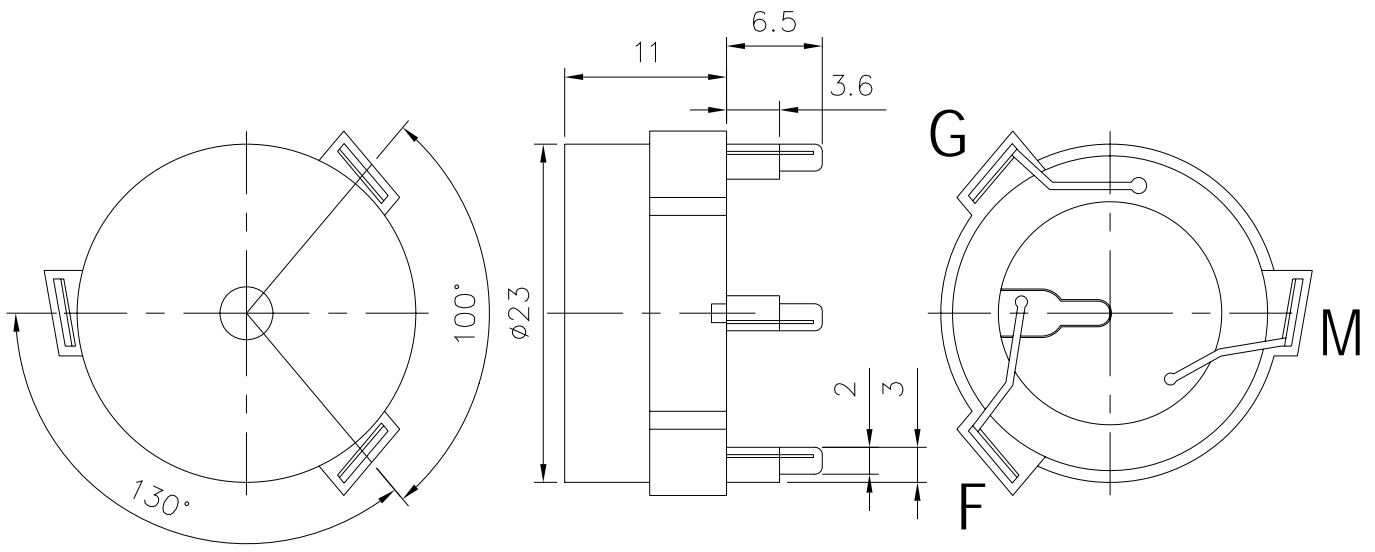
Test Circuit



Characteristic



REV NO.	REVISION NOTE	APPROVAL	DATE
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TITLE: <i>PIEZO BUZZER</i>		DRAWN: <i>Richard</i> 08/07/2001	SCALE: 2:1	SHEET: 1 : 1
PART NO. <i>AZ-2332E-A</i>	1	DESIGNED: <i>R & D DEP.</i>	UNITS: <i>mm</i>	
DWG NO. <i>DTP-1051</i>		CHECKED:	TOLERANCE ± 0.5	
	REV	APPROVAL:	UNLESS OTHERWISE SPECIFIED:	
		MATERIAL: <i>ABS</i>	ONE PLACE DECIMAL \pm ***	
			TWO PLACE DECIMAL \pm ***	
			THREE PLACE DECIMAL \pm ***	

A & B Components

AZ-2332E-A

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