SPECIFICATION FOR APPROVAL

Product	PIEZO BUZZER (EXTERNAL)		
Part No.	AZ-2220E-P		
Customer			
Approval			

Approved By	Checked By	Made By



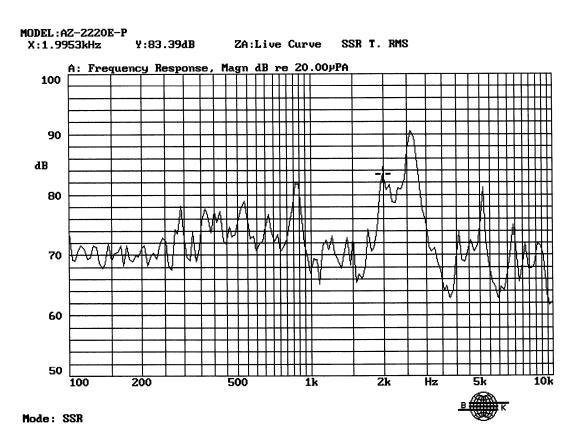
A & B Components

http://www.speaker-tw.com

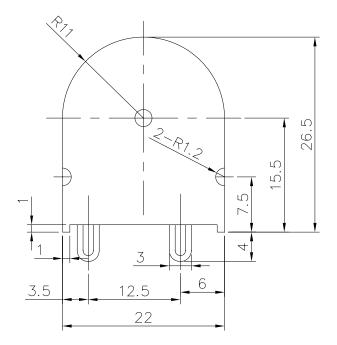
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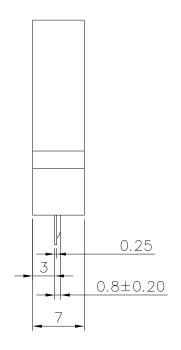
	Items	Units	Specifications	Conditions	
01	Rated Voltage	Vp-p	3	Square Wave	
02	Operating Voltage(Max)	Vp-p	1-25		
03	Current Consumption(max)	mA	3		
04	Sound Pressure Level	dBa	70	At 10cm / 2KHz	
05	Resonant Frequency	Hz	2000±500		
06	Operating Temp.	$^{\circ}\!\mathbb{C}$	-20 ~ +70		
07	Storage Temp.	$^{\circ}\!\mathbb{C}$	-30 ~ +80		
08	Capacitance	pF	19000 ± 30%	At 120Hz	
09	Weight	g	3		
10	Lead wire / lead pin material	Phosphor Bronze			

Frequency Response Curve.



REV NO.	REVISION NOTE	APPROVAL	DATE





TITLE: PIEZO BUZZER EXTERNAL		DRAWN:	Richard	05/09/2001	SCALE: 2:1	SHEET: 1	: 1	
			DESIGNED:	R & D	DDI.	011116.	mm	
PART NO.	AZ - 2220E - P	1	CHECKED:			TOLERANCE UNLESS OTHE		CIPIPD.
DWG NO.	D.F.D. (0.00	/	APPROVAL:			ONE PLACE	$DECIMAL \pm$	***
DWG 140.	DTP-1032	REV	MATERIAL:	MPP	0	TWO PLACE THREE PLAC	DECIMAL ± CE DECIMAL .	

A & B Components

RELIABILITY TEST

AZ-2220E-P

Item	Conditions	Evaluation standard
01 Low Temp. Storage Test	A°C±2°C ,240Hr	
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	$A^{\circ}C \pm 2^{\circ}C (1Hr) \rightarrow ,20^{\circ}C \pm 2^{\circ}C$ (1Hr) $B^{\circ}C \pm 2^{\circ}C (1Hr) \rightarrow ,20^{\circ}C \pm 2^{\circ}C$ (1Hr)10 cycle	(S.P.L)Test before numerical
05 Vibration Test	10-55Hz/1min amplitude1.5mm,X,Y,Z,3 directions	±10dB *wrong (Frequency)Test before
06 Mechanical Shock Test	impacts per axis	numerical ±10% (Current)Test before numerical
07 Free Drop Test	(total 4 times)	±10% (No crake is allowed on the part surface after Free drop
08 Life Burning Test	The part shall be subjected to 1000 hrs in the room temp with rated voltage applied	test)After the test ,the part shall meet the specifications
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	without any degradation in appearance and performance

Remark: "A"means Storage low temp. "B"means Storage high temp