SPECIFICATION FOR APPROVAL

Product	PIEZO BUZZER			
Part No.	AZ-2330E-P			
Customer				
Approval				

Approved By	Checked By	Made By



A & B Components

http://www.speaker-tw.com

AZ-2330E-P

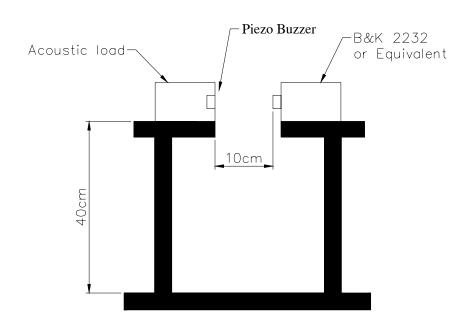
	Items	Units	Specifications	Conditions
01	Rated Voltage	Vp-p	9	Square Wave
02	Operating Voltage	Vp-p	3~30	
03	Rated Current	mA(Max)	10	9Vp-p / 3KHz
04	Sound Output At 10cm	dBA(Min)	80	At 9Vp-p / 3KHz
05	Resonant Frequency	Hz	3000±500	
06	Capacitance at 120Hz	pF	24000±30%	
07	Operating Temp.	$^{\circ}\!\mathbb{C}$	-20 ~ +60	
08	Storage Temp.	$^{\circ}\!\mathbb{C}$	-30 ~ +70	
09	Weight	g	3	

Measurement Condition

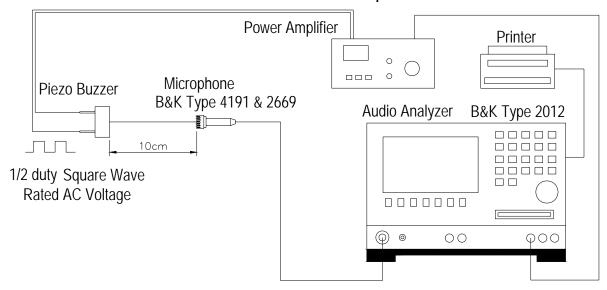
Test and measurement will be carried out under normal condition of temperature within 5° C to 35° C, relative humidity within 45% to 85% and air pressure of 860mbar to 1060mbar. Should uncertainly arise in data obtained from the above atmosphere, control of temperature At 20° C $\pm 2^{\circ}$ C and relative humidity within 60% and 70%, with air pressure remaining unchanged, To be enforced.

Value Applying Rated Voltage

STANDARD TEST FIXTURE

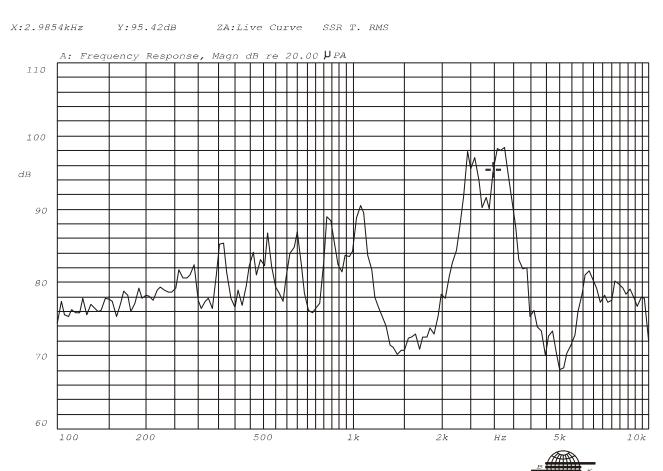


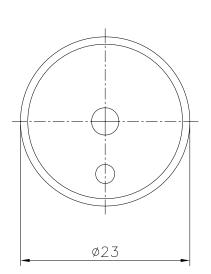
Standard test condition of piezo buzzer

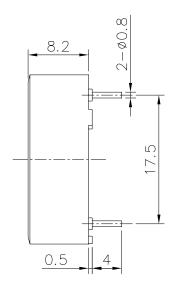


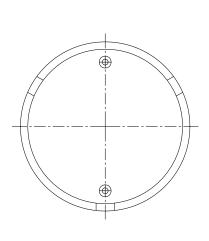
Frequency Response Curve

Mode: SSR









TITLE:	PIEZO BUZZER		DRAWN:	Richard	08/05/2002	SCALE: 2:1	SHEET: 1	of 1
11220 202221			DESIGNED.	: R & D	DEP.	UNITS:	mm	
PART NO.	ART NO. $AZ-2330E-P$		(`H#'(`K#')):			$TOLERANCE \pm 0.5$ $UNLESS OTHERWISE SPECIFIED:$		
DWG NO.		- /	APPROVAL:			ONE PLACE		
DWG NO.	DTP-1179	REV	MATERIAL:	ABS		TWO PLACE THREE PLACE	DECIMAL ± CE DECIMAL	

A & B Components

RELIABILITY TEST

AZ-2330E-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./l	Tomp /Humidity Storage Test	40°C±2°C , RH90-95%	
	Temp./Humidity Storage Test	240Hr	
		$A^{\circ}C \pm 2^{\circ}C (1Hr) \rightarrow ,20^{\circ}C \pm 2^{\circ}C$	
04	Thermal Shock Test	(1Hr)	
04	THEITIAI SHOCK TEST	$B^{\circ}C \pm 2^{\circ}C (1Hr) \rightarrow ,20^{\circ}C \pm 2^{\circ}C$	
		(1Hr)10 cycle	(S.P.L)Test before numerical
		10-55Hz/1min	±10dB
05	Vibration Test	amplitude1.5mm,X,Y,Z,3	_1000
		directions	(Frequency)Test before
06	Mechanical Shock Test	+100G,Sine wave, XYZ , 3	numerical ±10%
	Weenanieur Snock 163t	impacts per axis	
		The part shall be dropped	(Current)Test before numerical
07	Free Drop Test	freely from a height of 75 cm	+10%
	Tree Brop rest	onto concrete 1 time in 2 axes	
		,	(No crake is allowed on the
	Life Burning Test	The part shall be subjected to	
08		1000 hrs in the room temp with	
		rated voltage applied	After the test ,the part shall
	Lead Wire / Pin Pull Test	The Part checking standard:	meet the specifications
		Following supplier's Spec.	without any degradation in
			appearance and performance
09		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