

MESSRS.

SPECIFICATION FOR APPROVAL

承 認 书

Product	PIEZO BUZZER
Part No.	HZ-1032E-W1 (RoHS)
Customer Approval	

Approved By	Checked By	Made By
王台平 JUL-09-2010	曹丽萍 JUL-09-2010	LILY JUL-09-2010

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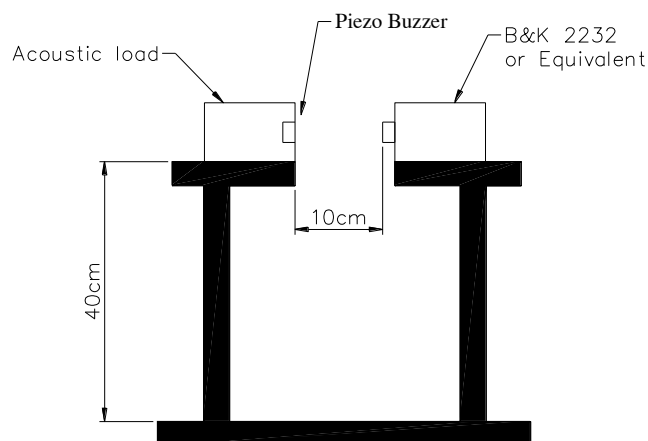
1. Specifications

HZ-1032E-W1 (RoHS)

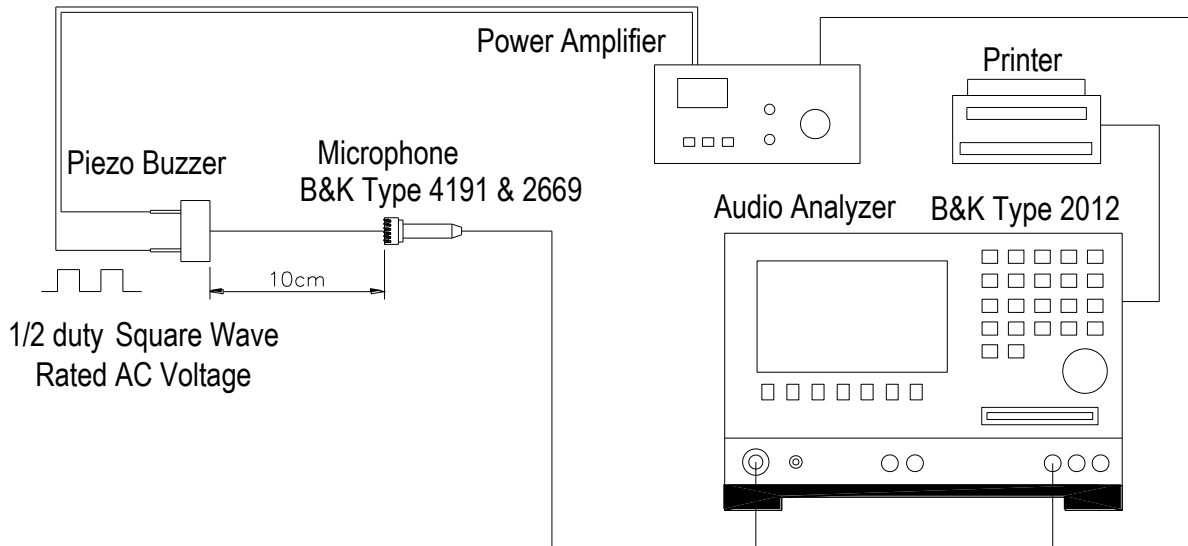
Items	Units	Specificati ons	Conditions	
01	Rated Voltage	V _{p-p}	10	Square Wave
02	Operating Voltage	V _{p-p}	1-30	
03	Rated Current	mA (Max)	5	10V _{p-p} / 3.2KHz
04	Sound Output At 10cm	dBA (Min)	80	At 10V _{p-p} / 3.2KHz
05	Resonant Frequency	Hz	3200	
06	Capacitance at 120Hz	pF	11000 ± 30%	
07	Operating Temp.	°C	-20 ~ +60	
08	Storage Temp.	°C	-20 ~ +70	
09	Weight	g	1	

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.

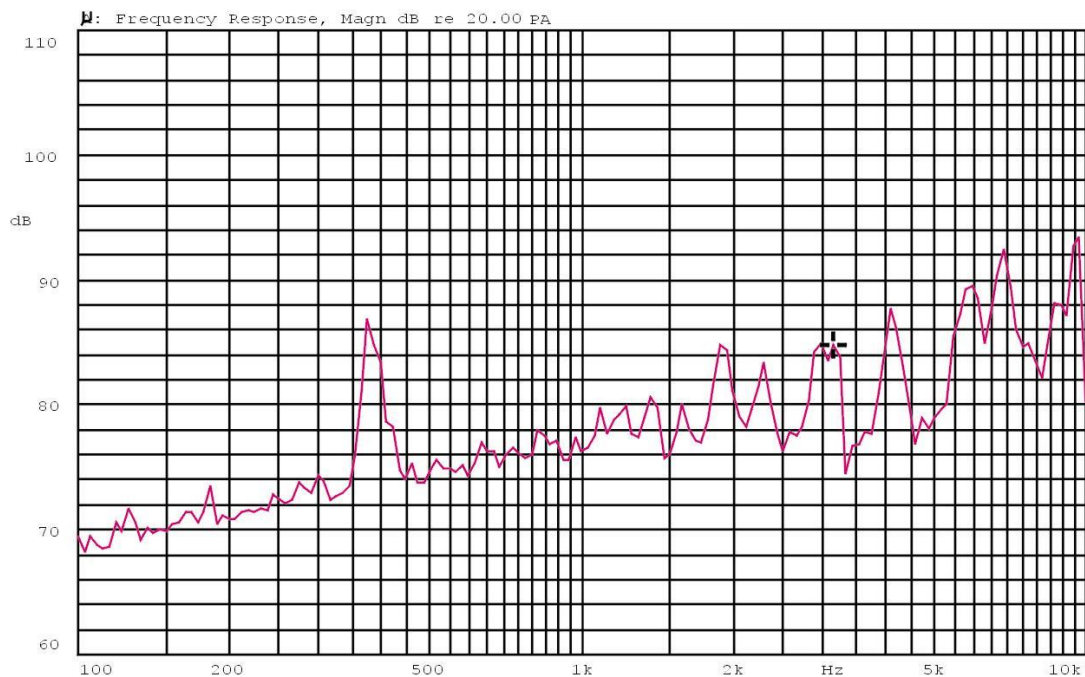
Value Applying Rated Voltage
STANDARD TEST FIXTURE


Standard test condition of piezo buzzer

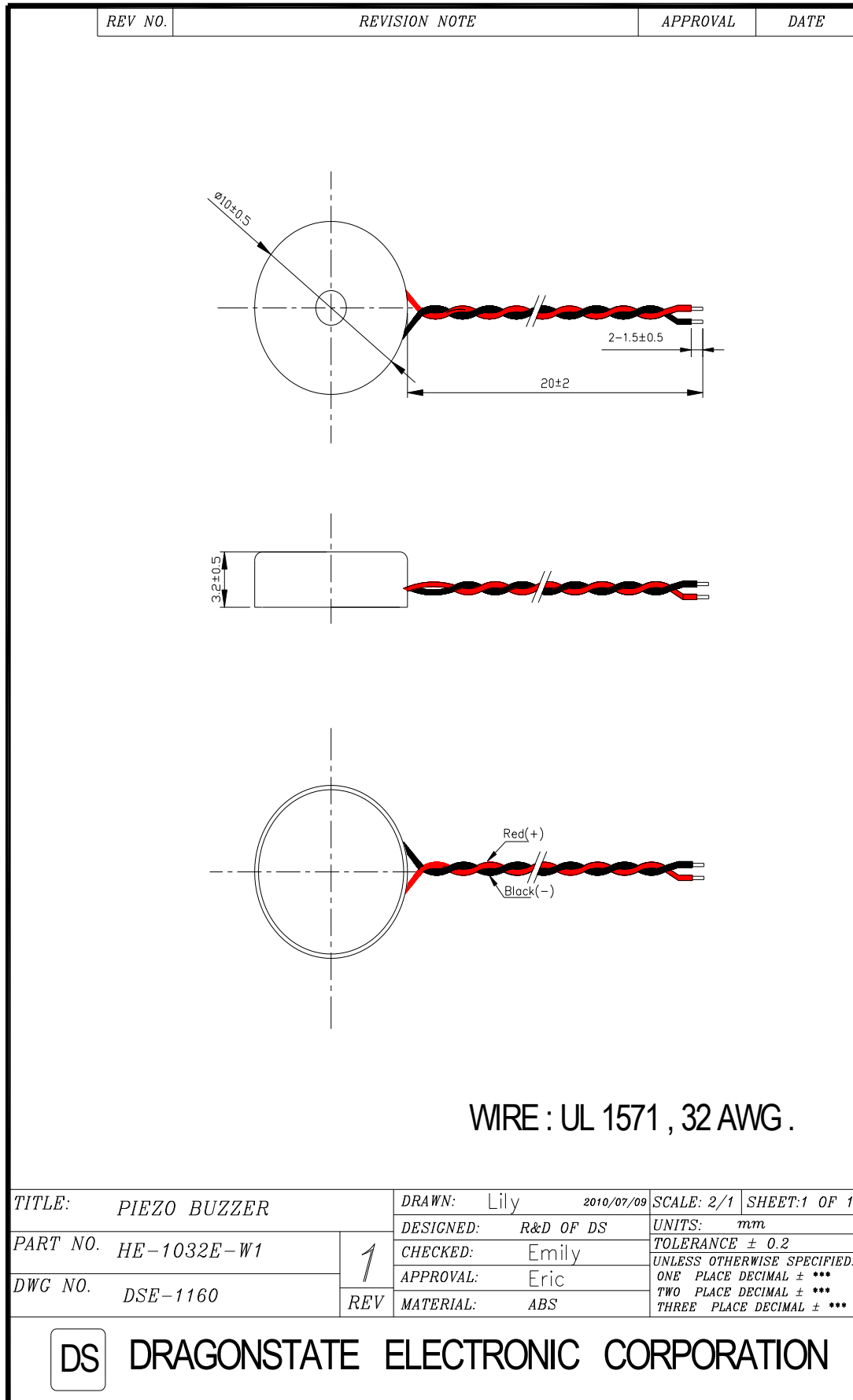


2. Frequency Response Curve

AG-1032E-W
 X:3.1623kHz Y:84.85dB ZA:Live Curve SSR T. RMS



3. Dimension



4. Reliability Test

Item		Test conditions	Evaluation standard						
01	High temp.Storage life	The part shall be capable of withstanding a storage Temperature of 70°C for 96 hours.	After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L S.P.L shall be 74dB or more.						
02	Low temp.Storage life	The part shall be capable of withstanding a storage Temperature of -20°C for 96 hours.							
03	Temp. cycle	The part shall be subjected 5 cycles. One cycle shall consist <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <tr> <td style="text-align: center;">-20°C</td> <td style="text-align: center;">70°C</td> </tr> <tr> <td style="text-align: center;">30min</td> <td style="text-align: center;">30min</td> </tr> <tr> <td colspan="2" style="text-align: center;">60min</td> </tr> </table> of;		-20°C	70°C	30min	30min	60min	
-20°C	70°C								
30min	30min								
60min									
04	Temp./Humidity cycle	The part shall be subjected with 90~95% R.H at +40°C for 96 hours.							
05	Free drop	The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes (X.Y.Z). (a total of 9 times).							
06	Lead Strength	Pull lead with a force of 10N, on the direction of the lead axis for 10 :10±1 sec							
07	Vibration	The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute. Total peak amplitude shall be 1.52mm (9.3G). The vibration test shall consist of 2 hours per plane in each three mutually perpendicular planes for a total time of 6 hours.							
08	Solder ability	Soldering : 350±5°C / 2 Sec.							