SPECIFICATION FOR APPROVAL

| Product | PIEZO BUZZER (SELF DRIVE) | |
|----------|---------------------------|--|
| Part No. | AZ-2331S-W | |
| Customer | | |
| Approval | | |

| Approved By | Checked By | Made By |
|-------------|------------|---------|
| | | |
| | | |



A & B Components

http://www.speaker-tw.com

AZ-2331S-W

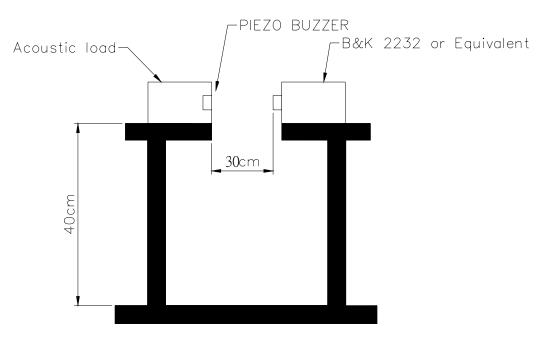
| Items | | Units | Specifications | Conditions |
|-------|----------------------|----------|----------------|------------|
| 01 | Rated Voltage | VDC | 12 | |
| 02 | Operating Voltage | VDC | 3~16 | |
| 03 | Rated Current | mA(Max) | 8 | At 12VDC |
| 04 | Sound Output At 30cm | dBA(Min) | 80 | At 12VDC |
| 05 | Resonant Frequency | Hz | 3100 ± 500 | |
| 06 | Tone Nature | Single | | |
| 07 | Operating Temp. | °C | -20 ~ +60 | |
| 08 | Storage Temp. | °C | -30 ~ +70 | |
| 09 | Weight | g | 5 | |

Measurement Condition

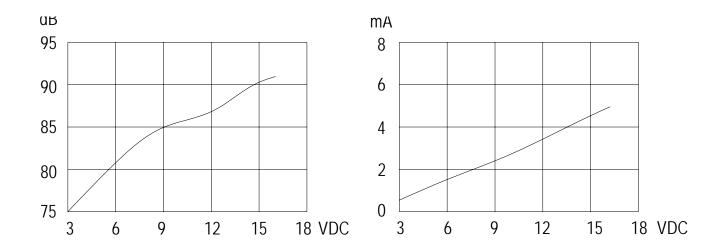
Test and measurement will be carried out under normal condition of temperature within 5°C to 35°C ,relative humidity within 45% to 85% and air pressure of 860mbar to 1060mbar. Should uncertainly arise in data obtained from the above atmosphere, control of temperature At 20°C \pm 2°C and relative humidity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

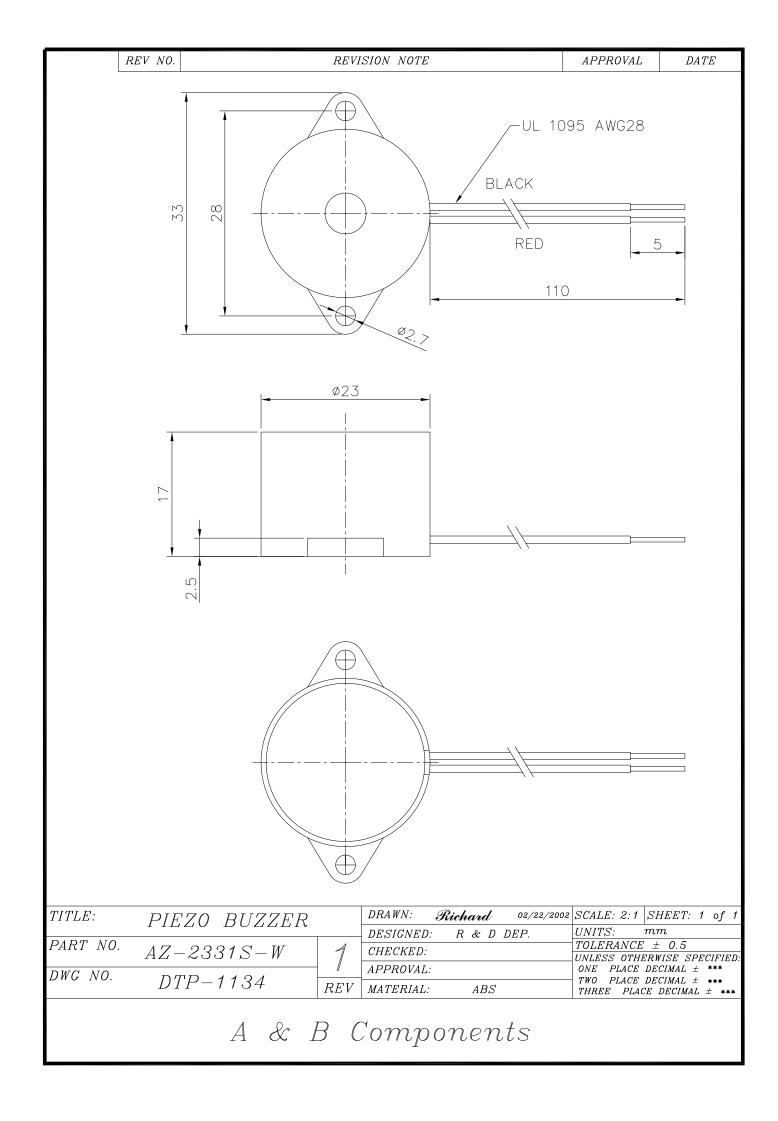
Value Applying Rated Voltage

STANDARD TEST FIXTURE



Characteristic





RELIABILITY TEST

AZ-2331S-W

| | 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 | | |
| 02 | Temp./Humidity Storage Test | 40°C ±2°C , RH90-95% | | |
| 03 | | 240Hr | | |
| 04 Thormal Shook T | | $A^{\circ}C \pm 2^{\circ}C (1Hr) \rightarrow ,20^{\circ}C \pm 2^{\circ}C$ | | |
| | Thermal Shock Test | (1Hr) | | |
| 04 | | $B^{\circ}C \pm 2^{\circ}C (1Hr) \rightarrow ,20^{\circ}C \pm 2^{\circ}C$ | | |
| | | (1Hr)10 cycle | (S.P.L)Test before numerical | |
| | | 10-55Hz/1min | ±10dB | |
| 05 | Vibration Test | amplitude1.5mm,X,Y,Z,3 | | |
| | | directions | (Frequency)Test before | |
| 06 | Mechanical Shock Test | +100G,Sine wave, XYZ , 3 | numerical ±10% | |
| | | impacts per axis | | |
| | | The part shall be dropped | (Current)Test before numerical | |
| 07 | Free Drop Test | freely from a height of 75 cm | 土10% | |
| 07 | | onto concrete 1 time in 2 axes | | |
| | | (total 4 times) | (No crake is allowed on the | |
| | Life Burning Test | The part shall be subjected to | | |
| 80 | | 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 | |
| | | Finished–part checking | appearance and performance | |
| 09 | | Standard | | |
| | | vertical Pull | | |
| | | i)100g MIN | | |
| | | 0.05mm Thickness of ceramic | | |
| | | ii)300g MIN | | |
| | | 0.1mm \leq Thickness of ceramic | | |
| | | b: Horizontal Pull | | |
| | | i)700g MIN | | |

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