
SPECIFICATION FOR APPROVAL

| | |
|-------------------|----------------------|
| Product | PIEZO BUZZER ELEMENT |
| Part No. | AE-1558E-WE |
| Customer Approval | |

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

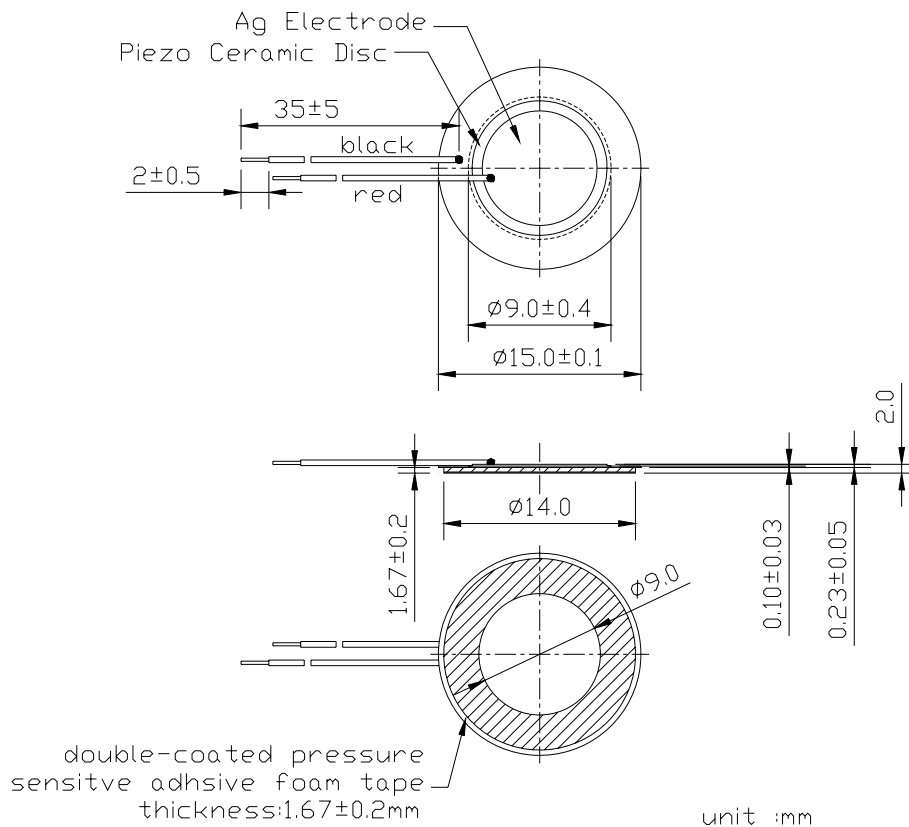


A & B Components

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

AE-1558E-WE

| ITEM | | CONDITION |
|------|--|---|
| 01 | Type. | External-drive type sound element |
| 02 | Resonant Frequency (KHz) | 5.8 ± 0.5 at $25 \pm 2^\circ\text{C}$, 45~60% RH |
| 03 | Resonant Impedance (OHM) | 800 OHM Max. at $25 \pm 2^\circ\text{C}$, 45~60% RH |
| 04 | Capacity (nF) | $10 \pm 30\%$ at 100Hz 1Vrms |
| 05 | Input Voltage (Max) Square Wave | 30 Vp-p |
| 06 | Plate Material | Brass |
| 07 | Lead Wire Spec. | Awg32, $35 \pm 5\text{mm}$ |
| 08 | Operating Temperature ($^\circ\text{C}$) | -20 to +60 |
| 09 | Storage Temperature ($^\circ\text{C}$) | -30 to +70 |



■ Piezo Ceramic Test Fixture

1. Resonant Freq. → YHP – 4192A at 1 Vrms
2. Resonant Imp. → YHP – 4192A at 1 Vrms
3. Capacitance → YHP – 4192A at 1 00Hz (or 1KHz)

■ Piezo Ceramic Reliability Test

| No. | Item | Condition | Variance after Conditioning |
|-----|------------------|--|---|
| 01 | High temperature | +70°C +/-2°C , 240 hrs | Resonant freq.: Initial value +/- 10% |
| 02 | Low temperature | -30°C +/-2°C , 240 hrs | |
| 03 | Humidity | +40°C +/-2°C , 90~95%RH , 240 hrs | |
| 04 | Thermal shock | -20°C +/-2°C (1hrs) → 20°C (5min) → 60°C +/-2°C (1hrs) → 20°C (5min) 20 cycles | Capacitance: Initial value +/- 15% |
| 05 | Temp. dependence | On place -20~+70°C rel. 20°C | Resonant freq.: +/- 15% Capacitance: 0.8% /°C |

Test specimens shall be kept for 4 hrs. (25°C) before measurement.