

MESSRS.

SPECIFICATION FOR APPROVAL

承 認 書

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

Approved By	Checked By	Made By



ADVANCED ACOUSTIC TECHNOLOGY CORP.

苙 翔 科 技 股 份 有 限 公 司



ISO 9001 Certified

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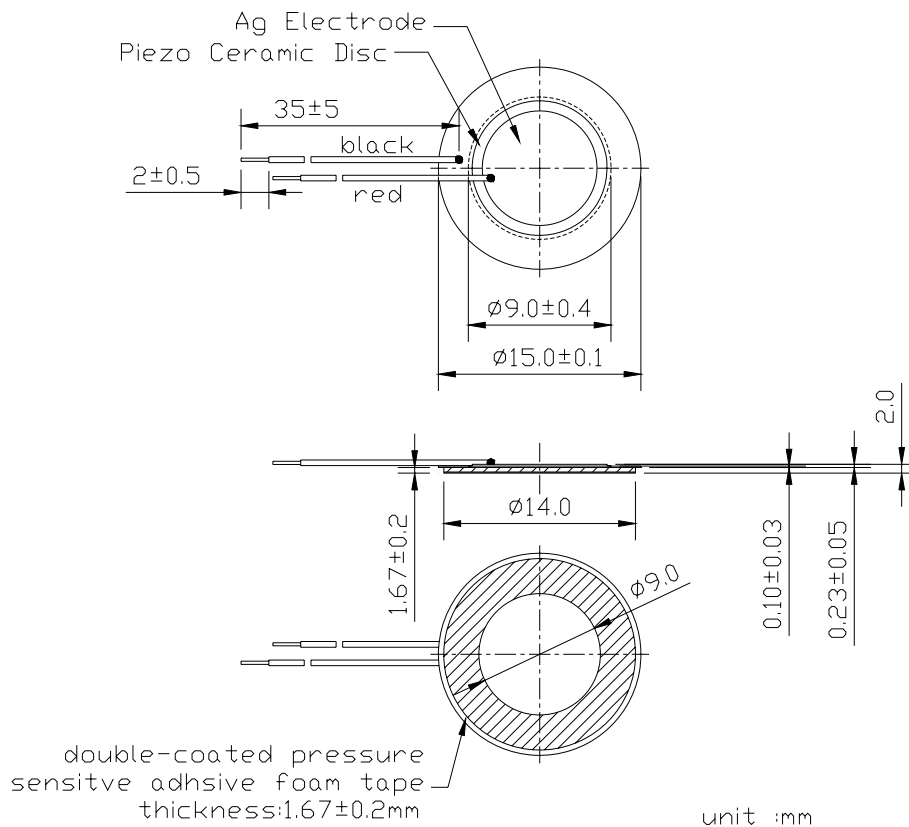
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AE-1558E-WE

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.