
SPECIFICATION FOR APPROVAL

Product	PIEZO BUZZER ELEMENT
Part No.	AE-4108E-N
Customer Approval	

Approved By	Checked By	Made By



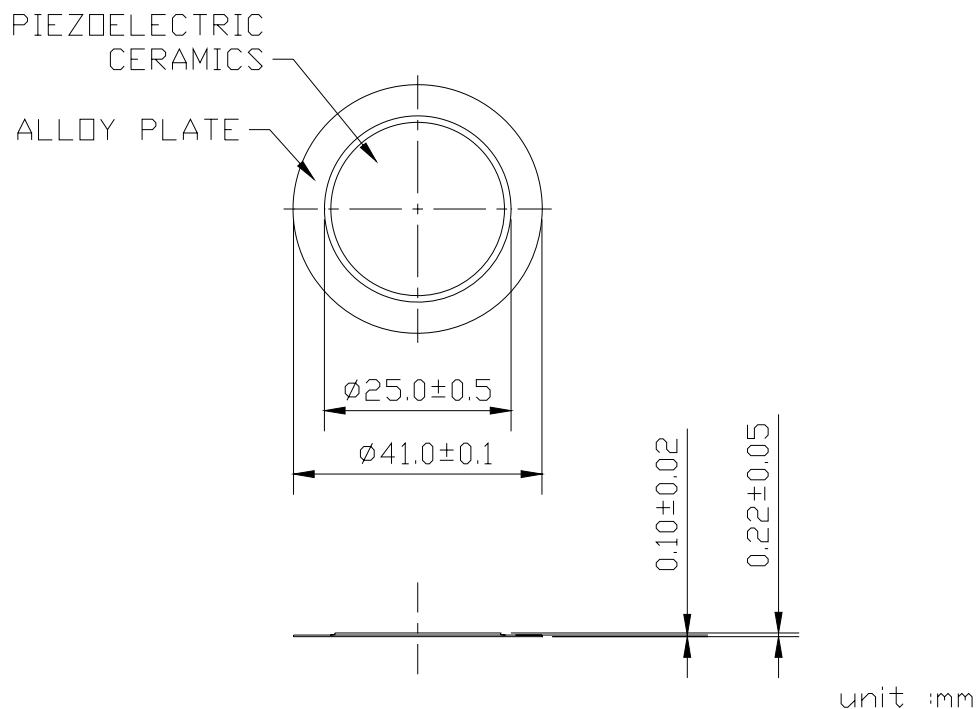
A & B Components

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

AE-4108E-N

ITEM		CONDITION
01	Type.	External -drive type sound element
02	Resonant Frequency (KHz)	0.8 ± 0.2 at $25 \pm 2^{\circ}\text{C}$, 45~60% RH
03	Input Voltage	30Vp-p Max
04	Resonant Impedance (OHM)	1200 OHM Max. at $25 \pm 2^{\circ}\text{C}$, 45~60% RH
05	Capacity (PF)	$72,000 \pm 30\%$ at 1KHz 1Vrms
06	Plate Material	Alloy
07	Operating Temperature ($^{\circ}\text{C}$)	-20 to +60
08	Storage Temperature ($^{\circ}\text{C}$)	-20 to +70

Dimensions



Drawing NO. : DEE-1014

■ Piezo Ceramic Test Fixture

1. Resonant Freq. → YHP – 4192A at 1 Vrms (sweep frequency : 100Hz)
2. Resonant Imp. → YHP – 4192A at 1 Vrms (sweep frequency : 100Hz)
3. Capacitance → YHP – 4192A at 100Hz

■ 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	-20°C±2°C , 240 hrs	
03	Humidity	+40°C±2°C , 90~95%RH , 240 hrs	
04	Thermal shock	-20°C±2°C (30min) → 20°C (15min) → 70°C±2°C (30min) → 20°C (15min) 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.