



## **DEVETECH ELECTRONICS CO. LTD**

**PIEZOELECTRIC ELEMENT  
CUSTOMER: DACHS ELECTRONICA  
P/N: DVZ15X10.5F40**

DESIGNED BY	
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## 1. General characteristics

1.1 Out-diameter: 15x10.5 mm

1.2 Height: 0.22 mm

1.3 Weight: 0.2 g

1.4 Operating Temperature: -20~+70°C without loss of function

1.5 Store Temperature: -30~+80°C without loss of function

## 2. Electrical and Acoustic Characteristics

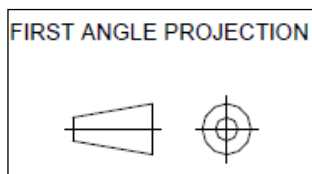
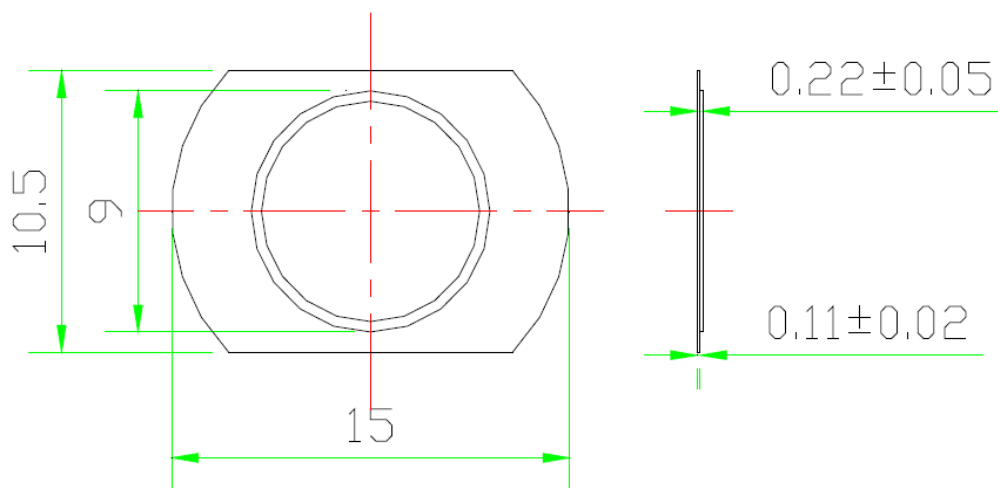
Test condition: 15 ~ 35 °C Temp: 45% ~ 75% RH, 86~106 kPa Refer to IEC60268-1

	Items	Specification
1	Resonant frequency	4.0±0.6 kHz
2	Max resonant impedance	800Ω
3	Capacitance at 120Hz	10000±30% pF
4	Operating voltage	1.5-20 V
5	Min Upright Pull	5S at the 250g weight
6	Metal material	Brass

### 3. Reliability Test

No	Items	Specification
1	High Temp.Test	Temperature $70\pm 2$ °C, RH $15\pm 5\%$ ,for 30min, room temperature for 2h. Resonant frequency: $\pm 15\%$ , Capacitance: $\pm 30\%$ .
2	Low Temp.Test	Temperature $-10\pm 2$ °C, for 30min, room temperature for 2h. Resonant frequency: $\pm 15\%$ , Capacitance: $\pm 30\%$ .
3	Humidity Test	After being placed in a chamber with 90 to 95%R.H. at $+30\pm 2$ °C for 96 h and then being placed in natural condition for 2h, and then check.
4	Thermal shock test	After being worked in a chamber at $+50\pm 2$ °C for 1 hour, then sounder shall be placed in a chamber at $-10\pm 2$ °C for 1 hour (1 cycle is the below diagram). The test duration is for 5 cycle, after being placed in natural condition for 1 hour and then check

### 4. Dimensions



UNIT : mm

Tolerance :  $\pm 0.2$

