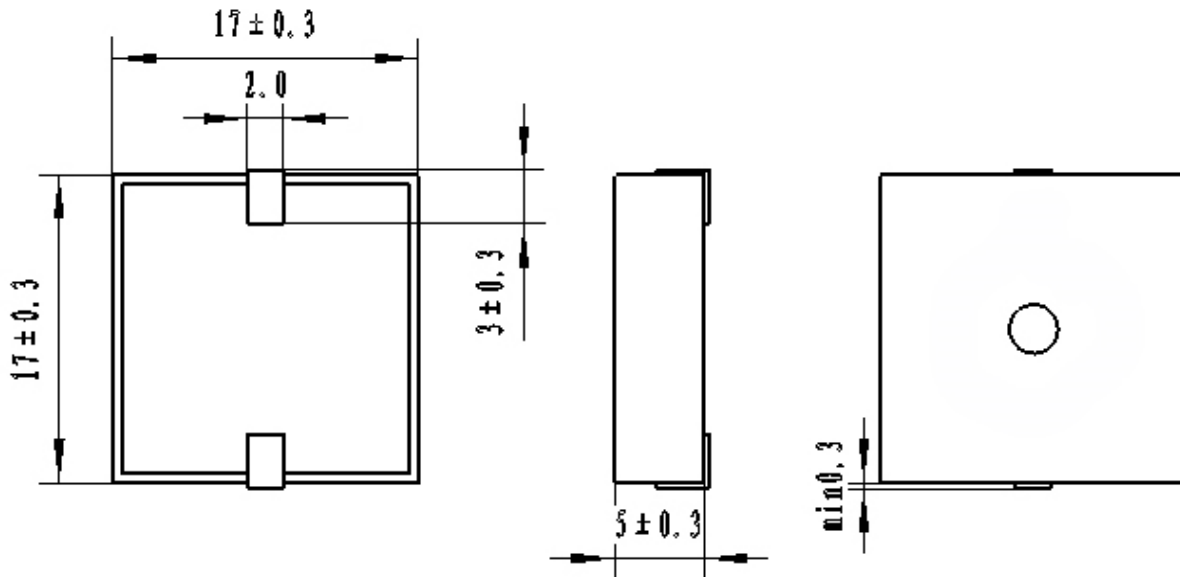


Sales Outline DrawingRevision **D****Specifications:**

Oscillation Frequency (Hz)	4000 ± 500
Operating Voltage (Vp-p)	1 ~ 20
Rated Voltage (Vp-p)	5.0
Current Consumption Max. (mA)	2.5 at Rated Voltage
Sound Pressure Level (dB/min)	80 at 10cm at Rated Voltage
Capacitance (pF)	15,000 ± 30% at 120 Hz
Operating Temperature (°C)	-30 ~ +70
Storage Temperature (°C)	-40 ~ +80
Type of Connection Terminal	SMD
Housing	PPS plastic resin (Color : Black)
Weight (Grams)	2.0
Condition by reflow soldering (°C)	245 ± 5 / 1 min
Condition by hand soldering (°C)	350 ± 20 / within 5 sec
Options	For other options contact factory

Dimensions: (units: mm)**RoHS Compliant****Packaging:**

Parts are supplied on Cut-Tape.

Units do not come with wash label and are not appropriate for aqueous wash.

Direct Drive Transducer Operation:

Direct drive transducer devices do not have any included DC circuitry, so the user must apply a sine or square wave with the appropriate rated frequency. A square wave will typically result in more sound level than a sine wave. The higher the peak-to-peak voltage applied (up to the maximum rated voltage), the higher the resulting sound level.

Frequency Response:

