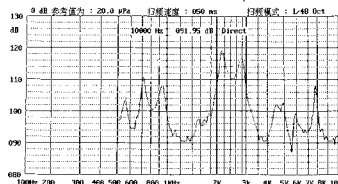


## Piezo Transducer

## KPT-2328BP series Piezo Transducer

## FREQUENCY RESPONSE

[actual curve of type]



applied voltage: 12 Vp-p, 1/2 duty, square wave distance for measurement: 10cm

## Model No

## KPT-2328BP

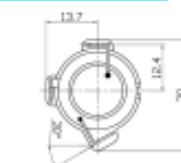
|                           |                                          |
|---------------------------|------------------------------------------|
| Rated Voltage             | 9Vp-p Square Wave                        |
| Max.Allowable Voltage     | 30Vp-p Square Wave                       |
| Max.Rated Current         | 2mA at 2.8KHz/9Vp-p Square Wave          |
| Min. Sound Pressure Level | 90dB at 2.8KHz/9Vp-p Square Wave/10cm    |
| Capacitance at 100Hz      | 25000pF $\pm$ 30%                        |
| Housing Material/Color    | PC/Black                                 |
| Operating Temperature     | -20 $^{\circ}$ C $\sim$ +60 $^{\circ}$ C |
| Store Temperature         | -30 $^{\circ}$ C $\sim$ +70 $^{\circ}$ C |
| Weight                    | 3g                                       |

\* Value applying at rated voltage

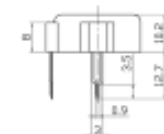


color Black  
PC Housing Material  
Pin Terminal

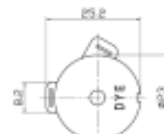
## DIMENSIONS



Bottom View



Side View



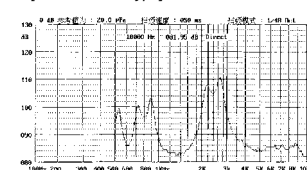
Top View

all dimensions are in mm

## KPT-1910 series Telephone Ringer

## FREQUENCY RESPONSE

[actual curve of type]



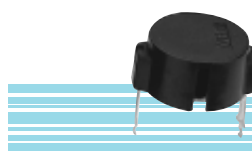
applied voltage: 12 Vp-p, 1/2 duty, square wave distance for measurement: 10cm

## Model No

## KPT-1910

|                           |                                           |
|---------------------------|-------------------------------------------|
| Rated Voltage             | 10Vp-p Square Wave                        |
| Operating Voltage         | 30Vp-p Square Wave                        |
| Max.Rated Current         | 9mA at 10Vp-p Square Wave                 |
| Min. Sound Pressure Level | 90dB at 10Vp-p Square Wave/2.7KHz/10cm    |
| Resonant Frequency        | 2.7 $\pm$ 0.5KHz                          |
| Capacitance at 100Hz      | 32000pF $\pm$ 30%                         |
| Housing Material / Color  | PA/Black                                  |
| Operating Temperature     | -20 $^{\circ}$ C $\sim$ +80 $^{\circ}$ C  |
| Store Temperature         | -30 $^{\circ}$ C $\sim$ +100 $^{\circ}$ C |
| Weight                    | 2g                                        |

\* Value applying at rated voltage

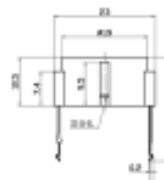


color Black  
PA Housing Material  
Pin Terminal

## DIMENSIONS



Bottom View



Side View



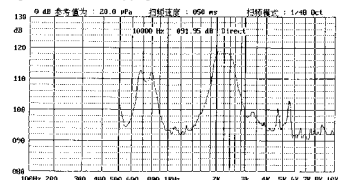
Top View

all dimensions are in mm

## KPT-3017 series Piezo Telephone Ringer

## FREQUENCY RESPONSE

[actual curve of type]



applied voltage: 12 Vp-p, 1/2 duty, square wave distance for measurement: 10cm

## Model No

## KPT-3017

|                           |                                          |
|---------------------------|------------------------------------------|
| Rated Voltage             | 12Vp-p Square Wave                       |
| Operating Voltage         | 30Vp-p Square Wave                       |
| Max.Rated Current         | 10mA/12Vp-p Square Wave                  |
| Min. Sound Pressure Level | 85dB/30cm/12Vp-p Square Wave             |
| Resonant Frequency        | 2.0 $\pm$ 0.5KHz                         |
| Capacitance at 100Hz      | 4800pF $\pm$ 30%                         |
| Housing Material / Color  | PBT/Black                                |
| Operating Temperature     | -20 $^{\circ}$ C $\sim$ +70 $^{\circ}$ C |
| Store Temperature         | -30 $^{\circ}$ C $\sim$ +85 $^{\circ}$ C |
| Weight                    | 6g                                       |

\* Value applying at rated voltage



color Black  
PBT Housing Material  
Pin Terminal

## DIMENSIONS



Bottom View



Side View



Top View

all dimensions are in mm