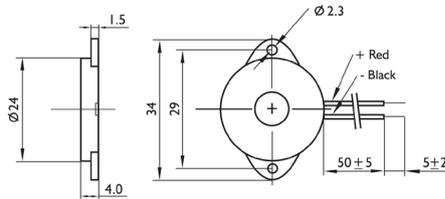


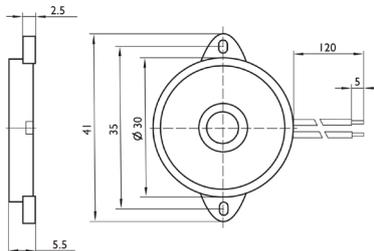
## Panel Mount - Wire Lead Type

AC Devices (requires external circuitry to generate sound)

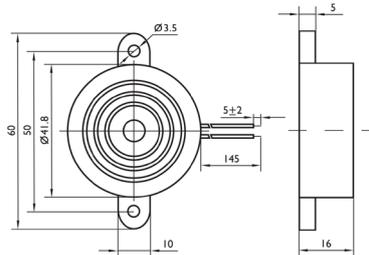
### ABT-422-RC



### ABT-431-RC



### ABT-438-RC



Dimensions : Millimetres  
Tolerance: ±0.5mm

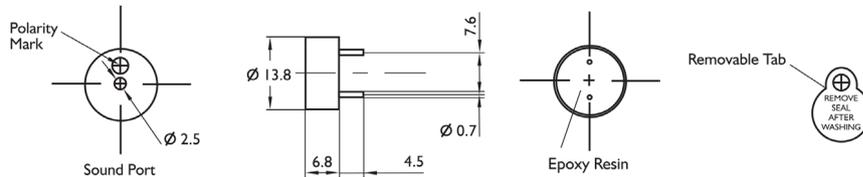
## Specifications

| Part Number                      | ABT-422-RC     | ABT-431-RC     | ABT-438-RC     |
|----------------------------------|----------------|----------------|----------------|
| Rated Voltage (Vp-p square wave) | 15Vp-p         | 9Vp-p          | 12Vp-p         |
| Operating Voltage                | 1 - 30Vp-p     | 1 - 30Vp-p     | 1 - 30Vp-p     |
| Rated Current                    | ≤ 8mA          | ≤ 3mA          | 3mA            |
| Sound Output level               | ≥ 90dB @30cm   | ≥ 88dB @10cm   | ≥ 90dB @30cm   |
| Resonant Frequency               | 5500Hz ±700Hz  | 3500Hz ±500Hz  | 2800Hz ±500    |
| Capacitance                      | 18000pF ±30%pF | 20000pF ±30%pF | 35000pF ±30%   |
| Tone                             | Continuous     |                |                |
| Housing Material                 | Black ABS      | Black ABS      | Black ABS      |
| Operating Temperature            | -20°C to +70°C | -20°C to +60°C | -20°C to +60°C |
| Storage Temperature              | -30°C to +80°C | -30°C to +70°C | -30°C to +70°C |
| Lead Wire                        | UL1571 AWG32   | UL1905 AWG28   | UL1007 AWG28   |
| Lead Length                      | 50mm           | 120mm          | 145mm          |
| Weight                           | 3g             | 3.5g           | 10g            |

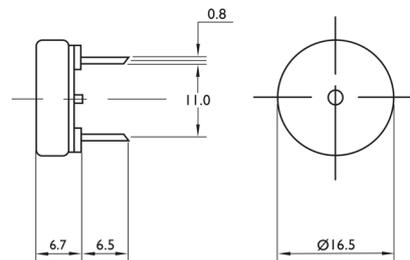
## Through Hole Type

AC Devices (requires external circuitry to generate sound)

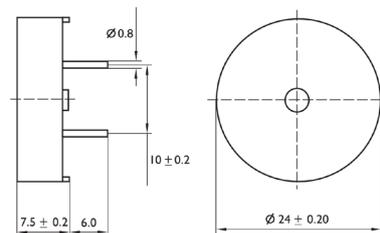
### ABT-402-RC



### ABT-405-RC



### ABT-430-RC

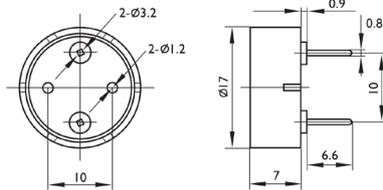


Dimensions : Millimetres  
Tolerance: ±0.5mm

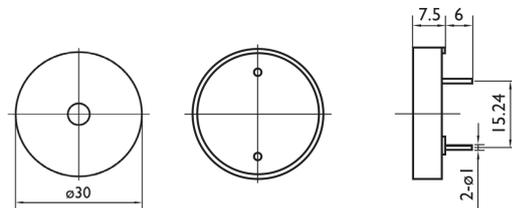
## Specifications

| Part Number                      | ABT-402-RC     | ABT-405-RC     | ABT-430-RC     |
|----------------------------------|----------------|----------------|----------------|
| Rated Voltage (Vp-p square wave) | 5Vp-p          | 3Vp-p          | 9Vp-p          |
| Operating Voltage                | 1 - 20Vp-p     | 1 - 30Vp-p     | 1 - 30Vp-p     |
| Rated Current                    | ≤ 1mA          | ≤ 1mA          | ≤ 3mA          |
| Sound Output level               | ≥ 80dB @10cm   | ≥ 75dB @10cm   | ≥ 85dB @10cm   |
| Resonant Frequency               | 4000Hz ±500Hz  | 4000Hz ±500Hz  | 4000Hz ±500Hz  |
| Capacitance                      | 13000pF ±30%pF | 10000pF ±30%pF | 17000pF ±30%pF |
| Tone                             | Continuous     |                |                |
| Housing Material                 | -              | Black Noryl    | Black ABS      |
| Operating Temperature            | -20°C to +70°C | -20°C to +70°C | -20°C to +60°C |
| Storage Temperature              | -30°C to +80°C | -30°C to +80°C | -30°C to +70°C |
| Pin Pitch                        | 7.6mm          | 11mm           | 10mm           |
| Weight                           | 1g             | 1g             | 3g             |

## ABT-436-RC



## ABT-451-RC



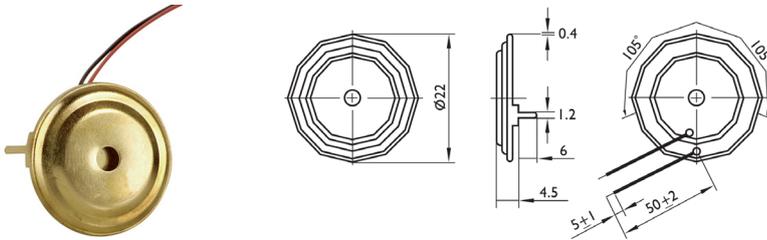
Dimensions : Millimetres  
Tolerance: ±0.5mm

## Specifications

| Part Number                      | ABT-436-RC     | ABT-451-RC     |
|----------------------------------|----------------|----------------|
| Rated Voltage (Vp-p square wave) | 5Vp-p          | 10Vp-p         |
| Operating Voltage                | 1 - 30Vp-p     | 1 - 30Vp-p     |
| Rated Current                    | ≤ 1mA          | ≤ 3mA          |
| Sound Output level               | ≥ 78dB @10cm   | ≥ 90dB @10cm   |
| Resonant Frequency               | 4000Hz ±500Hz  | 2800Hz ±500Hz  |
| Capacitance                      | 15000pF ±30%pF | -              |
| Tone                             | Continuous     |                |
| Housing Material                 | Black Noryl    | Black ABS      |
| Operating Temperature            | -20°C to +70°C | -20°C to +60°C |
| Storage Temperature              | -30°C to +80°C | -30°C to +70°C |
| Pin Pitch                        | 10mm           | 15.24mm        |
| Weight                           | 1g             | 2g             |

## Through Hole & Wire Lead Type

AC Devices (requires external circuitry to generate sound)



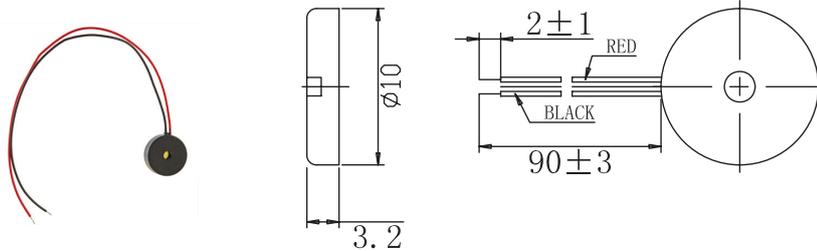
Dimensions : Millimetres  
Tolerance: ±0.5mm

## Specifications

|                                  |                |
|----------------------------------|----------------|
| Part Number                      | ABT-440-RC     |
| Rated Voltage (Vp-p square wave) | 15Vp-p         |
| Operating Voltage                | 1 - 30Vp-p     |
| Rated Current                    | ≤ 5mA          |
| Sound Output level               | ≥ 90dB @10cm   |
| Resonant Frequency               | 4300Hz ±500Hz  |
| Tone                             | Continuous     |
| Housing Material                 | Brass          |
| Operating Temperature            | -20°C to +60°C |
| Storage Temperature              | -30°C to +70°C |
| Lead Wire                        | UL1571 AWG32   |
| Lead Length                      | 50mm           |
| Weight                           | 2g             |

## Wire Lead Type

AC Devices (requires external circuitry to generate sound)



Dimensions : Millimetres  
Tolerance: ±0.5mm

## Specifications

| Part Number                      | ABT-459-RC     |
|----------------------------------|----------------|
| Rated Voltage (Vp-p square wave) | 10Vp-p         |
| Operating Voltage                | 1 - 30Vp-p     |
| Rated Current                    | ≤ 5mA          |
| Sound Output level               | ≥ 80dB @10cm   |
| Resonant Frequency               | 3200Hz ±500Hz  |
| Capacitance                      | 11000pF ±30%pF |
| Housing Material                 | Black ABS      |
| Operating Temperature            | -20°C to +60°C |
| Storage Temperature              | -30°C to +70°C |
| Lead Wire                        | UL1571 AWG32   |
| Lead Length                      | 90mm           |
| Weight                           | 1g             |

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