

# Micro Speaker

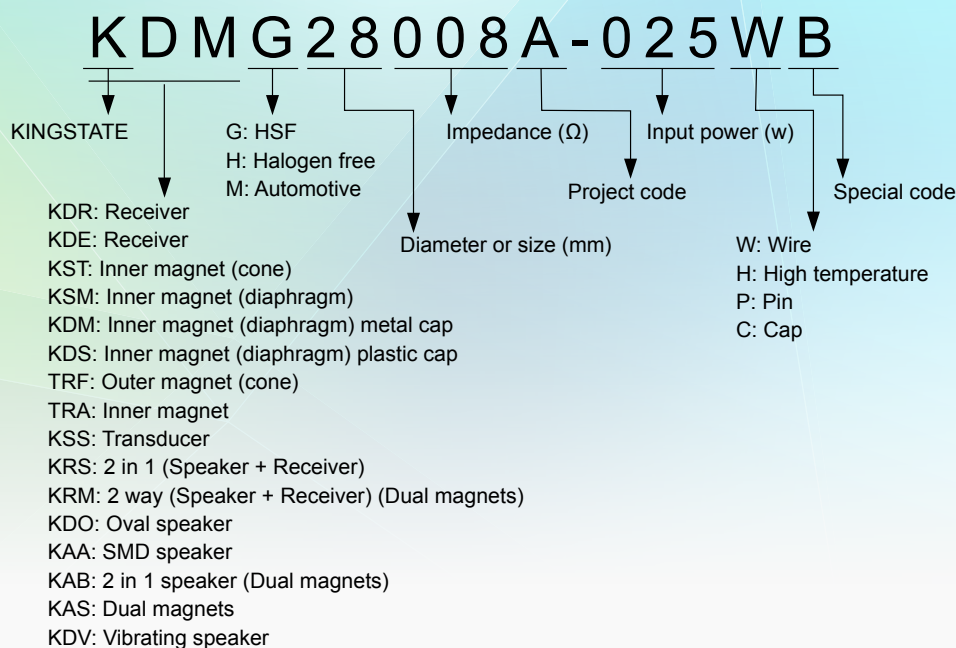


# Micro Speaker

## Speedy Reference List

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## Micro Speaker Coding System

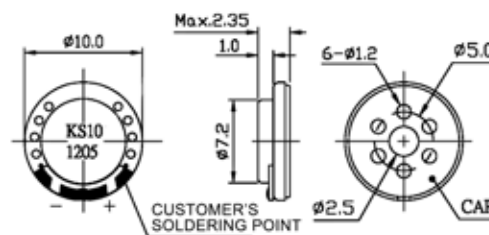


## Round Type

## MICRO SPEAKER

### KDMG10008CL-03

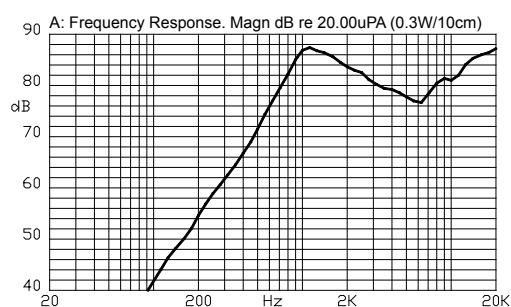
#### Dimension



Tol:  $\pm 0.5$  Unit: mm

#### Characteristic

|                                |                                                                         |
|--------------------------------|-------------------------------------------------------------------------|
| FO (Hz)                        | $1,200 \pm 20\% @ 1.0V$                                                 |
| Rated Input (W)                | 0.3                                                                     |
| Maximum Input (W)              | 0.5                                                                     |
| Sound Pressure Level (dB)      | $86 \pm 3$ (0.3W/10cm), $72 \pm 3$ (1W/1m)<br>@1.0K, 1.2K, 1.5K, 2.0KHz |
| Impedance ( $\Omega$ )         | $8 \pm 15\% @ 1.5KHz 1.0V$                                              |
| Frequency Range (Hz)           | Fo---20K                                                                |
| Operating Temp ( $^{\circ}C$ ) | -30 ~ +85                                                               |
| Dimension (mm)                 | $\Phi 10.0 \times H2.35$                                                |
| Material                       | Metal                                                                   |

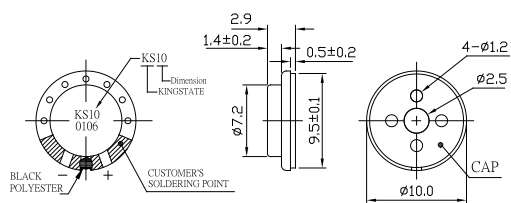


## Round Type

## MICRO SPEAKER

### KDMG10008C-03

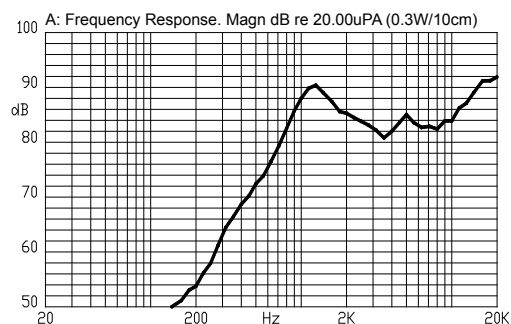
#### Dimension



Tol:  $\pm 0.5$  Unit: mm

#### Characteristic

|                                |                                                                         |
|--------------------------------|-------------------------------------------------------------------------|
| FO (Hz)                        | $1,200 \pm 20\% @ 1.0V$                                                 |
| Rated Input (W)                | 0.3                                                                     |
| Maximum Input (W)              | 0.5                                                                     |
| Sound Pressure Level (dB)      | $86 \pm 3$ (0.3W/10cm), $72 \pm 3$ (1W/1m)<br>@1.0K, 1.2K, 1.5K, 2.0KHz |
| Impedance ( $\Omega$ )         | $8 \pm 15\% @ 1.5KHz 1.0V$                                              |
| Frequency Range (Hz)           | Fo---20K                                                                |
| Operating Temp ( $^{\circ}C$ ) | -20 ~ +55                                                               |
| Dimension (mm)                 | $\Phi 10.0 \times H2.9$                                                 |
| Material                       | Metal                                                                   |

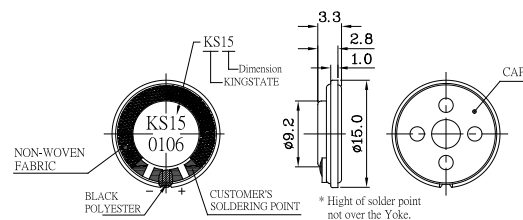


## Round Type

## MICRO SPEAKER

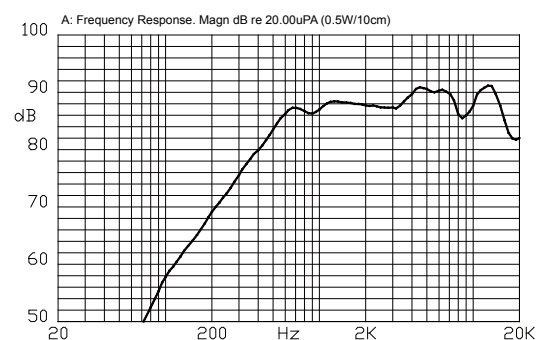
### KDMG15008-05

### Dimension



Tol:  $\pm 0.5$  Unit: mm

### Characteristic



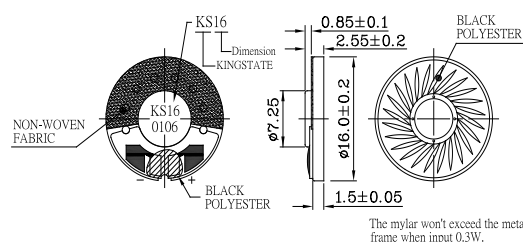
|                                |                                                                          |
|--------------------------------|--------------------------------------------------------------------------|
| FO (Hz)                        | $750 \pm 20\% @ 1.0V$                                                    |
| Rated Input (W)                | 0.5                                                                      |
| Maximum Input (W)              | 0.8                                                                      |
| Sound Pressure Level (dB)      | $87 \pm 3$ (0.3W/10cm), $71 \pm 3$ (1W/1m) @ AVG 1.0K, 1.2K, 1.5K 2.0KHz |
| Impedance ( $\Omega$ )         | $8 \pm 15\% 1.0KHz 1.0V$                                                 |
| Frequency Range (Hz)           | Fo---20K                                                                 |
| Operating Temp ( $^{\circ}C$ ) | -20 ~ +85                                                                |
| Dimension (mm)                 | $\Phi 15.0 \times H3.3$                                                  |
| Material                       | Metal                                                                    |

## Round Type

## MICRO SPEAKER

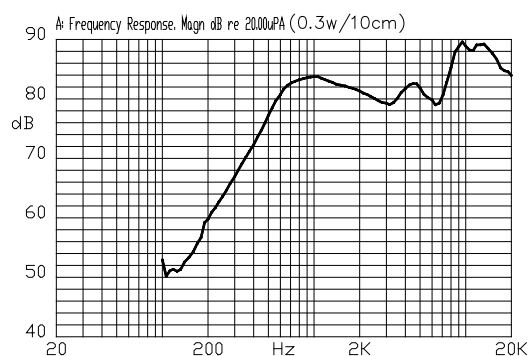
### KDMG16008-03

### Dimension



Tol:  $\pm 0.5$  Unit: mm

### Characteristic



|                                |                                                                           |
|--------------------------------|---------------------------------------------------------------------------|
| FO (Hz)                        | $600 \pm 20\% @ 1.0V$                                                     |
| Rated Input (W)                | 0.3                                                                       |
| Maximum Input (W)              | 0.5                                                                       |
| Sound Pressure Level (dB)      | $82 \pm 3$ (0.3W/10cm), $69 \pm 3$ (1W/1m) @ AVG 1.0K, 1.2K, 1.5K, 2.0KHz |
| Impedance ( $\Omega$ )         | $8 \pm 15\% 1.0KHz 1.0V$                                                  |
| Frequency Range (Hz)           | Fo---20K                                                                  |
| Operating Temp ( $^{\circ}C$ ) | -20 ~ +55                                                                 |
| Dimension (mm)                 | $\Phi 16.0 \times H2.55$                                                  |
| Material                       | Metal                                                                     |

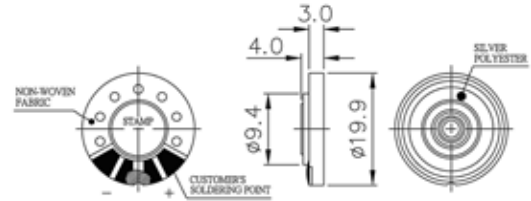
## Round Type

## MICRO SPEAKER

### KDSG20008

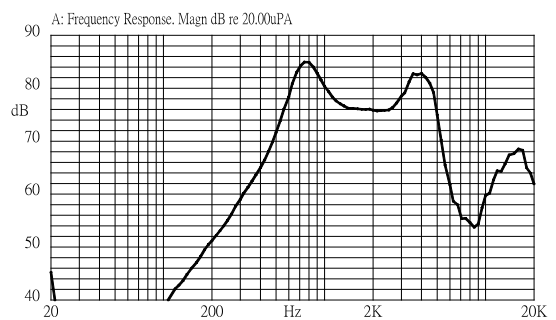


#### Dimension



Tol:  $\pm 0.5$  Unit: mm

#### Characteristic



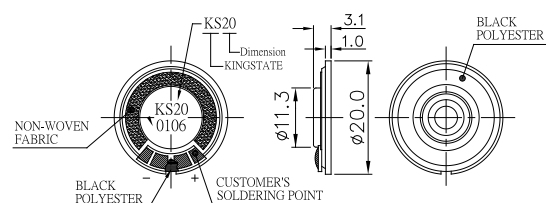
## Round Type

## MICRO SPEAKER

### KDMG20008

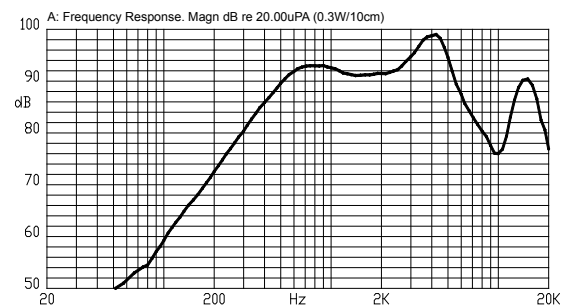


#### Dimension



Tol:  $\pm 0.5$  Unit: mm

#### Characteristic



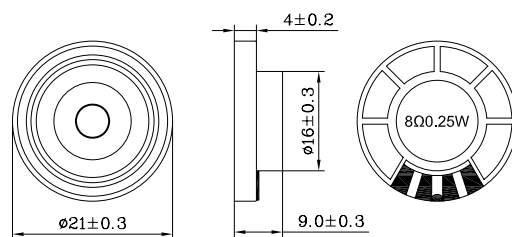
## Round Type

## MICRO SPEAKER

### KDSG21008M-025

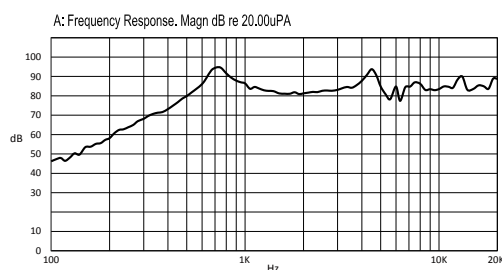


#### Dimension



Tol: ± 0.5 Unit: mm

#### Characteristic



|                           |                                                 |
|---------------------------|-------------------------------------------------|
| FO (Hz)                   | 800 ± 20%@1.0V                                  |
| Rated Input (W)           | 0.25                                            |
| Maximum Input (W)         | 0.5                                             |
| Sound Pressure Level (dB) | 86 ± 3 (0.1W/10cm)@AVG 0.8K, 1.0K, 1.2K, 1.5KHz |
| Impedance (Ω)             | 8 ± 15%@2.0KHz                                  |
| Frequency Range (Hz)      | Fo---20K                                        |
| Operating Temp (°C)       | -20 ~ +60                                       |
| Dimension (mm)            | Φ21.0xH4.0                                      |
| Material                  | ABS                                             |

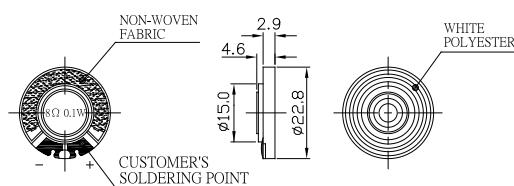
## Round Type

## MICRO SPEAKER

### KDSG23008

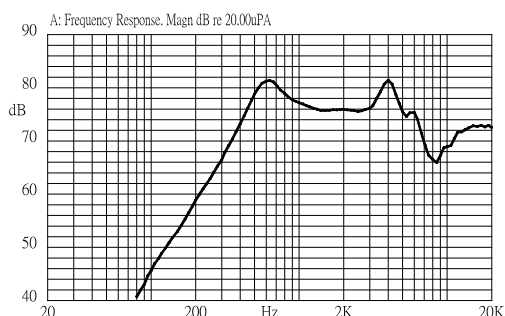


#### Dimension



Tol: ± 0.5 Unit: mm

#### Characteristic



|                           |                                                                 |
|---------------------------|-----------------------------------------------------------------|
| FO (Hz)                   | 590 ± 20%@1.0V                                                  |
| Rated Input (W)           | 0.1                                                             |
| Maximum Input (W)         | 0.25                                                            |
| Sound Pressure Level (dB) | 87 ± 3 (0.1W/10cm), 77 ± 3 (1W/1m)@AVG 1.0K, 1.2K, 1.5K, 2.0KHz |
| Impedance (Ω)             | 8 ± 15%1.0KHz 1.0V                                              |
| Frequency Range (Hz)      | Fo---5K                                                         |
| Operating Temp (°C)       | -20 ~ +55                                                       |
| Dimension (mm)            | Φ22.8xH4.6                                                      |
| Material                  | Metal                                                           |

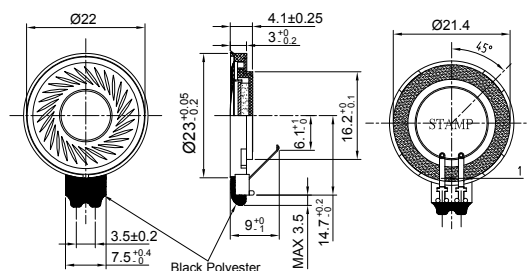
## Round Type

## MICRO SPEAKER

### KDSG23050P-06

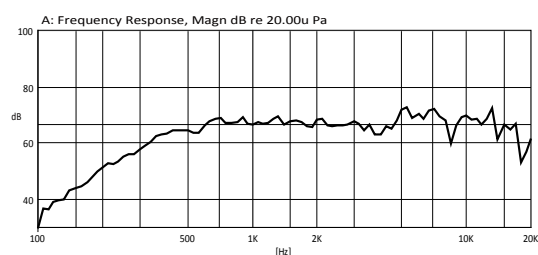


### Dimension



Tol: ± 0.5 Unit: mm

### Characteristic



|                           |                                               |
|---------------------------|-----------------------------------------------|
| FO (Hz)                   | 600 ± 20% @ 1.0V                              |
| Rated Input (W)           | 0.6                                           |
| Maximum Input (W)         | 0.7                                           |
| Sound Pressure Level (dB) | 90 ± 3 (0.1W/10cm) @ 0.8K, 1.0K, 1.2K, 1.5KHz |
| Impedance (Ω)             | 50 ± 15% 1.0KHz 1.0V                          |
| Frequency Range (Hz)      | Fo---10K                                      |
| Operating Temp (°C)       | -40 ~ +85                                     |
| Dimension (mm)            | Φ23.0xH4.1                                    |
| Material                  | Metal                                         |

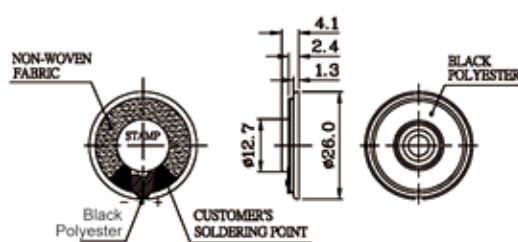
## Round Type

## MICRO SPEAKER

### KDMG26008

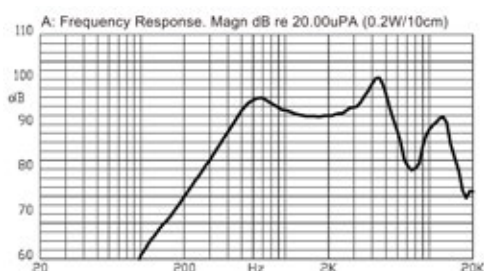


### Dimension



Tol: ± 0.5 Unit: mm

### Characteristic



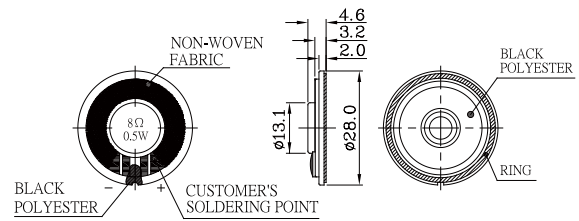
|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| FO (Hz)                   | 520 ± 20% @ 1.0V                                                  |
| Rated Input (W)           | 0.2                                                               |
| Maximum Input (W)         | 0.3                                                               |
| Sound Pressure Level (dB) | 92 ± 3 (0.2W/10cm), 79 ± 3 (1W/1m) @ AVG 1.0K, 1.2K, 1.5K, 2.0KHz |
| Impedance (Ω)             | 8 ± 15% 1.0KHz 1.0V                                               |
| Frequency Range (Hz)      | Fo---6.5K                                                         |
| Operating Temp (°C)       | -20 ~ +55                                                         |
| Dimension (mm)            | Φ26.0xH4.1                                                        |
| Material                  | Metal                                                             |

## Round Type

## MICRO SPEAKER

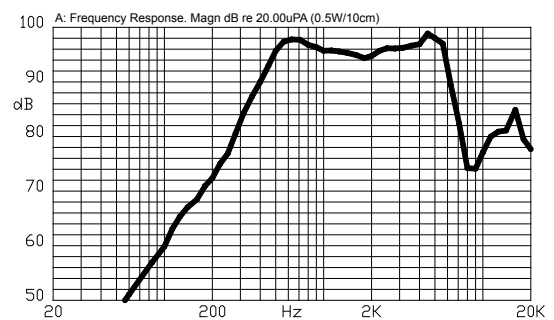
KDMG28008-05

Dimension



Tol:  $\pm 0.5$  Unit: mm

Characteristic



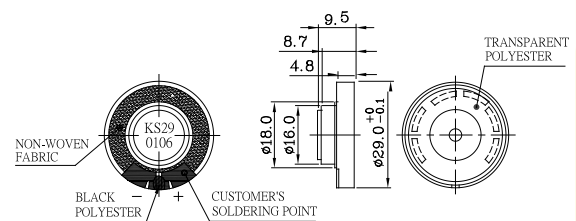
|                                       |                                                                     |
|---------------------------------------|---------------------------------------------------------------------|
| FO (Hz)                               | 600 $\pm 20\%$ @1.0V                                                |
| Rated Input (W)                       | 0.5                                                                 |
| Maximum Input (W)                     | 1.0                                                                 |
| Sound Pressure Level (dB)             | 95 $\pm 3$ (0.5W/10cm), 79 $\pm 3$ (1W/1m)@1.0K, 1.2K, 1.5K, 2.0KHz |
| Impedance ( $\Omega$ )                | 8 $\pm 15\%$ 1.0KHz 1.0V                                            |
| Frequency Range (Hz)                  | Fo---6.0K                                                           |
| Operating Temp ( $^{\circ}\text{C}$ ) | -20 ~ +55                                                           |
| Dimension (mm)                        | $\Phi 28.0 \times H 4.6$                                            |
| Material                              | Metal                                                               |

## Round Type

## MICRO SPEAKER

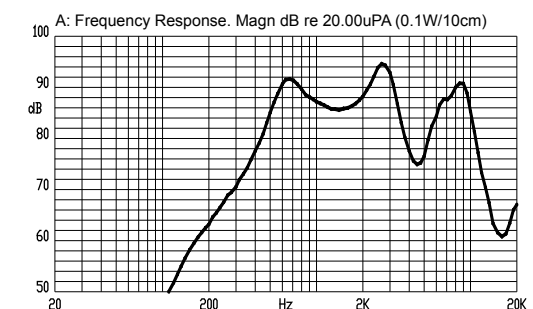
KDSG29008

Dimension



Tol:  $\pm 0.5$  Unit: mm

Characteristic



|                                       |                                                                          |
|---------------------------------------|--------------------------------------------------------------------------|
| FO (Hz)                               | 650 $\pm 20\%$ @1.0V                                                     |
| Rated Input (W)                       | 0.1                                                                      |
| Maximum Input (W)                     | 0.2                                                                      |
| Sound Pressure Level (dB)             | 88 $\pm 3$ (0.1W/10cm), 78 $\pm 3$ (1W/1m) @AVG 1.0K, 1.2K, 1.5K, 2.0KHz |
| Impedance ( $\Omega$ )                | 8 $\pm 15\%$ 1.0KHz 1.0V                                                 |
| Frequency Range (Hz)                  | Fo---4K                                                                  |
| Operating Temp ( $^{\circ}\text{C}$ ) | -20 ~ +55                                                                |
| Dimension (mm)                        | $\Phi 29.0 \times H 9.5$                                                 |
| Material                              | ABS UL-94 1/16" HB                                                       |

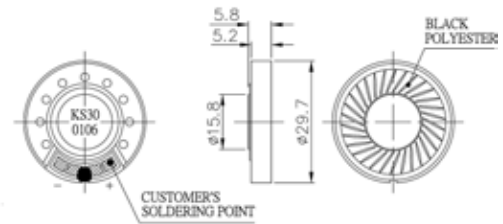
## Round Type

## MICRO SPEAKER

### KDSG30008

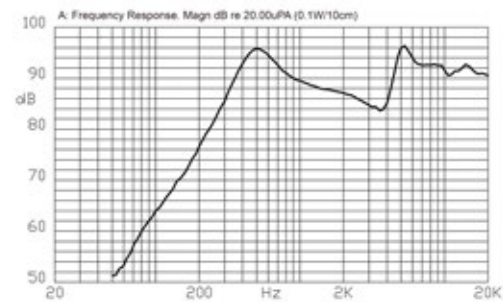


#### Dimension



Tol:  $\pm 0.5$  Unit: mm

#### Characteristic



|                                |                                                                          |
|--------------------------------|--------------------------------------------------------------------------|
| FO (Hz)                        | 460 $\pm$ 20% @1.0V                                                      |
| Rated Input (W)                | 0.1                                                                      |
| Maximum Input (W)              | 0.2                                                                      |
| Sound Pressure Level (dB)      | 88 $\pm$ 3 (0.1W/10cm), 78 $\pm$ 3 (1W/1m) @AVG 1.0K, 1.2K, 1.5K, 2.0KHz |
| Impedance ( $\Omega$ )         | 8 $\pm$ 15% 1.0KHz 1.0V                                                  |
| Frequency Range (Hz)           | Fo---5K                                                                  |
| Operating Temp ( $^{\circ}$ C) | -20 ~ +55                                                                |
| Dimension (mm)                 | $\Phi$ 29.7xH5.8                                                         |
| Material                       | ABS UL-94 1/16"HB High Heat (Black)                                      |

C Micro Speaker

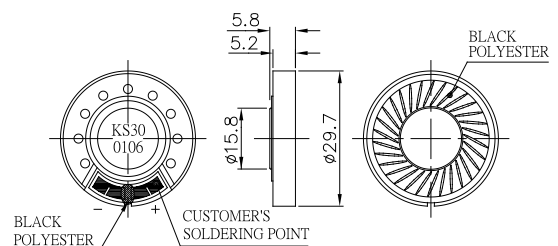
## Round Type

## MICRO SPEAKER

### KDSG30064

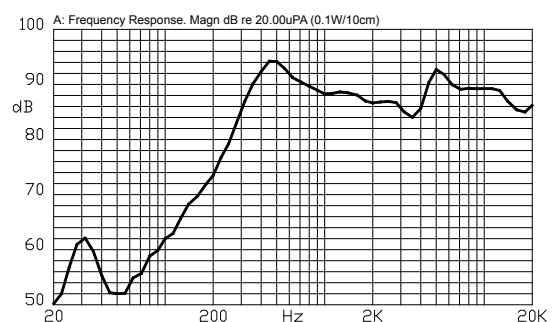


#### Dimension



Tol:  $\pm 0.5$  Unit: mm

#### Characteristic



|                                |                                                                          |
|--------------------------------|--------------------------------------------------------------------------|
| FO (Hz)                        | 430 $\pm$ 20% @2.0V                                                      |
| Rated Input (W)                | 0.1                                                                      |
| Maximum Input (W)              | 0.2                                                                      |
| Sound Pressure Level (dB)      | 88 $\pm$ 3 (0.1W/0.1m), 78 $\pm$ 3 (1W/1m) @AVG 1.0K, 1.2K, 1.5K, 2.0KHz |
| Impedance ( $\Omega$ )         | 64 $\pm$ 15% @1.0KHz 1.0V                                                |
| Frequency Range (Hz)           | Fo---20K                                                                 |
| Operating Temp ( $^{\circ}$ C) | -20 ~ +55                                                                |
| Dimension (mm)                 | $\Phi$ 29.7xH5.8                                                         |
| Material                       | ABS UL-94 1/16"HB High Heat (Black)                                      |

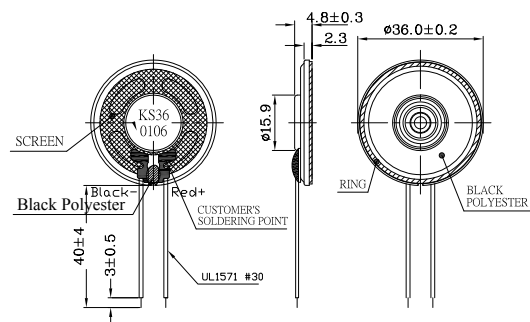
## Round Type

## MICRO SPEAKER

### KDMG36008-10BW14

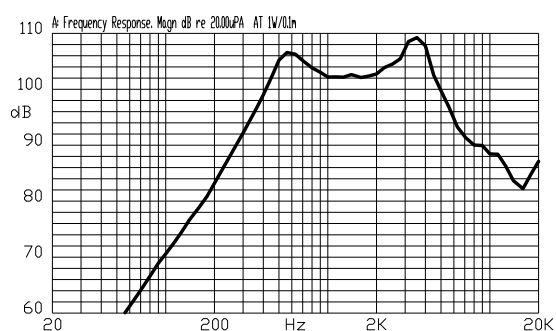


#### Dimension



Tol: ± 0.5 Unit: mm

#### Characteristic



|                           |                                                                       |
|---------------------------|-----------------------------------------------------------------------|
| FO (Hz)                   | 570 ± 20% @ 1.0V                                                      |
| Rated Input (W)           | 1.0                                                                   |
| Maximum Input (W)         | 1.5                                                                   |
| Sound Pressure Level (dB) | 104 ± 3 (1.0W/0.1m), 88 ± 3 (1.0W/0.5m)<br>@ 0.8K, 1.0K, 1.2K, 1.5KHz |
| Impedance (Ω)             | 8 ± 15% @ 1.5KHz 1.0V                                                 |
| Frequency Range (Hz)      | Fo---5K                                                               |
| Operating Temp (°C)       | -40 ~ +55                                                             |
| Dimension (mm)            | Φ36.0xH4.8                                                            |
| Material                  | Metal                                                                 |

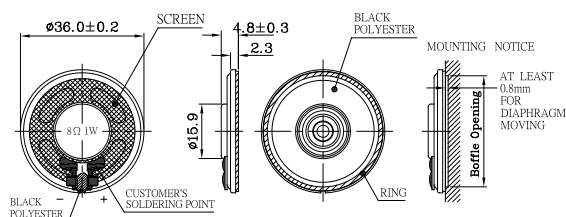
## Round Type

## MICRO SPEAKER

### KDMG36008-10B

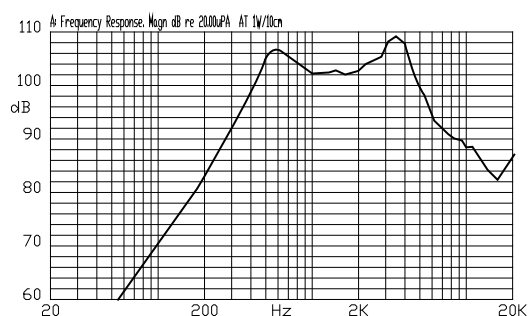


#### Dimension



Tol: ± 0.5 Unit: mm

#### Characteristic



|                           |                                                                    |
|---------------------------|--------------------------------------------------------------------|
| FO (Hz)                   | 570 ± 20% @ 1.0V                                                   |
| Rated Input (W)           | 1.0                                                                |
| Maximum Input (W)         | 1.5                                                                |
| Sound Pressure Level (dB) | 104 ± 3 (1W/10cm), 92 ± 3 (1W/0.5m) @ 800Hz,<br>1.0K, 1.2K, 1.5KHz |
| Impedance (Ω)             | 8 ± 15% @ 1.0KHz 1.0V                                              |
| Frequency Range (Hz)      | Fo---5K                                                            |
| Operating Temp (°C)       | -40 ~ +85                                                          |
| Dimension (mm)            | Φ36.0xH4.8                                                         |
| Material                  | Metal                                                              |

## Round Type

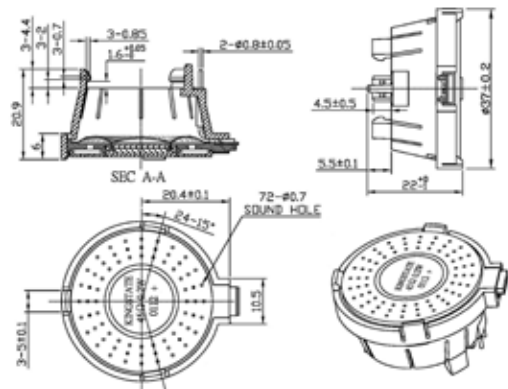
## MICRO SPEAKER

**KDSG37045-020-B**



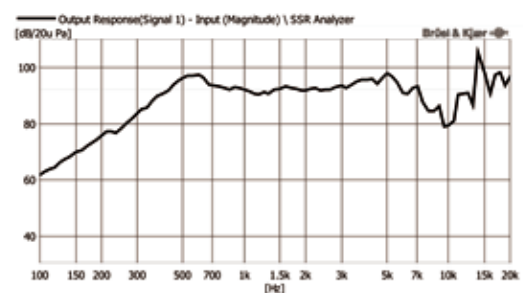
|                           |                                             |
|---------------------------|---------------------------------------------|
| FO (Hz)                   | 480 ± 20%@1.0V                              |
| Rated Input (W)           | 0.2                                         |
| Maximum Input (W)         | 0.4                                         |
| Sound Pressure Level (dB) | 92 ± 3 (0.2W/0.1m)@1.0K, 1.5K, 2.0K, 3.0KHz |
| Impedance (Ω)             | 45 ± 15%@1.5KHz 1.0V                        |
| Frequency Range (Hz)      | Fo---10K                                    |
| Operating Temp (°C )      | -40 ~ +105                                  |
| Dimension (mm)            | Φ37.0xH22.0                                 |
| Material                  | PBT+15% GLASS / PC                          |

## Dimension



Tol:  $\pm 0.5$     Unit: mm

### Characteristic



## Round Type

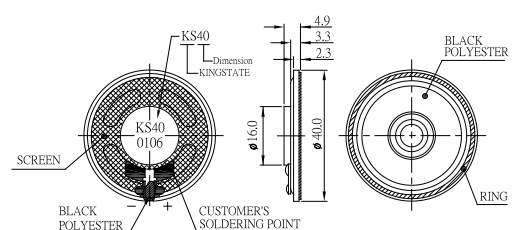
## MICRO SPEAKER

**KDMG40008**



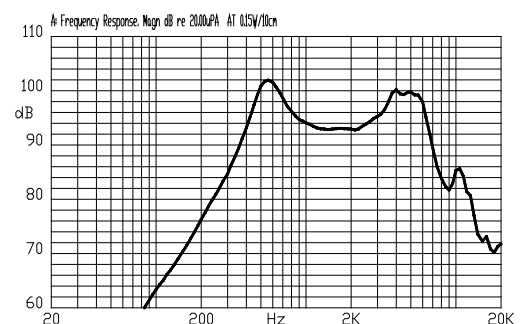
|                           |                                                                      |
|---------------------------|----------------------------------------------------------------------|
| FO (Hz)                   | 530 ± 20% @ 1.0V                                                     |
| Rated Input (W)           | 0.15                                                                 |
| Maximum Input (W)         | 0.3                                                                  |
| Sound Pressure Level (dB) | 92 ± 3 (0.15W/10cm), 81 ± 3 (1W/1m)<br>@AVG 1.0K, 1.2K, 1.5K, 2.0KHz |
| Impedance (Ω)             | 8 ± 15% @ 1.0KHz 1.0V                                                |
| Frequency Range (Hz)      | Fo---7K                                                              |
| Operating Temp (°C )      | -20 ~ +60                                                            |
| Dimension (mm)            | Φ40.0xH4.9                                                           |
| Material                  | Metal                                                                |

## Dimension



Tol:  $\pm 0.5$       Unit: mm

### Characteristic



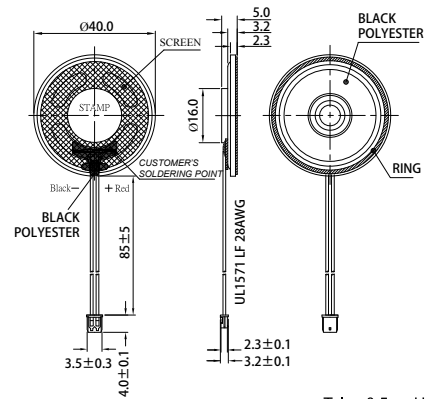
## Round Type

## MICRO SPEAKER

### KDMG40004-10WA

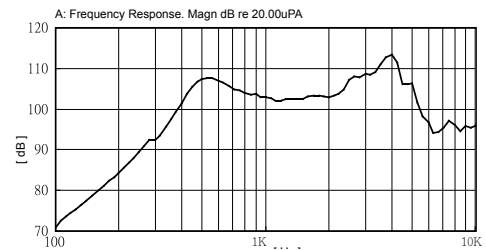


#### Dimension



Tol:  $\pm 0.5$  Unit: mm

#### Characteristic



|                                |                                                                          |
|--------------------------------|--------------------------------------------------------------------------|
| FO (Hz)                        | $560 \pm 20\% @ 1.0V$                                                    |
| Rated Input (W)                | 1.0                                                                      |
| Maximum Input (W)              | 2.0                                                                      |
| Sound Pressure Level (dB)      | $102 \pm 3$ (1.0W/10cm), $83 \pm 3$ (1W/1m)<br>@1.0K, 1.2K, 1.5K, 2.0KHz |
| Impedance ( $\Omega$ )         | $4 \pm 15\% @ 1.0KHz 1.0V$                                               |
| Frequency Range (Hz)           | Fo---6K                                                                  |
| Operating Temp ( $^{\circ}C$ ) | -20 ~ +55                                                                |
| Dimension (mm)                 | $\phi 40.0 \times H5.0$                                                  |
| Material                       | Metal                                                                    |

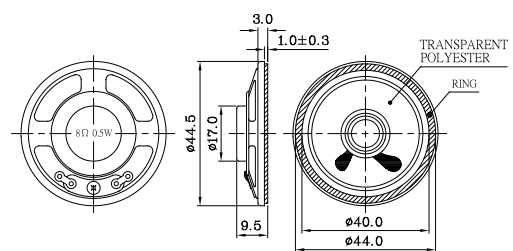
## Round Type

## MICRO SPEAKER

### KSMG45008-05

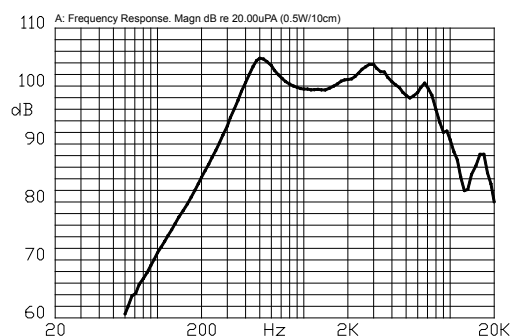


#### Dimension



Tol:  $\pm 0.5$  Unit: mm

#### Characteristic

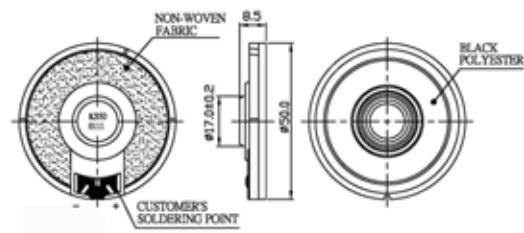


|                                |                                                                         |
|--------------------------------|-------------------------------------------------------------------------|
| FO (Hz)                        | $600 \pm 20\% @ 1.0V$                                                   |
| Rated Input (W)                | 0.5                                                                     |
| Maximum Input (W)              | 0.6                                                                     |
| Sound Pressure Level (dB)      | $99 \pm 3$ (0.5W/10cm), $83 \pm 3$ (1W/1m)<br>@1.0K, 1.2K, 1.5K, 2.0KHz |
| Impedance ( $\Omega$ )         | $8 \pm 15\% @ 1.0KHz 1.0V$                                              |
| Frequency Range (Hz)           | Fo---4K                                                                 |
| Operating Temp ( $^{\circ}C$ ) | -20 ~ +55                                                               |
| Dimension (mm)                 | $\phi 44.0 \times H9.5$                                                 |
| Material                       | Metal                                                                   |

## C Micro Speaker

# Micro Speaker

## Dimension



### Characteristic

# Frequency Response Magn at 2000Hz (at 0.2V/10cm)

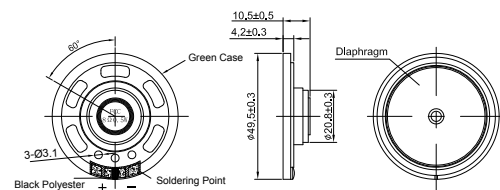
dB

Hz

20 200 2K 20K

## MICRO SPEAKER

## Dimension



### Characteristic

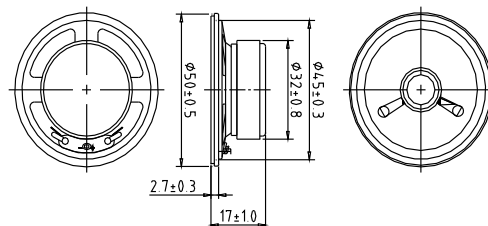
## Round Type

## MICRO SPEAKER

### TRFG50016C-30A

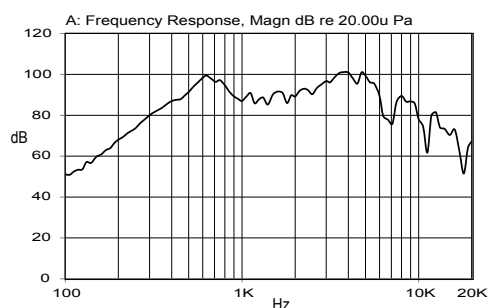


#### Dimension



Tol: ± 0.5 Unit: mm

#### Characteristic



|                           |                                 |
|---------------------------|---------------------------------|
| FO (Hz)                   | 450 ± 20%                       |
| Rated Input (W)           | 3.0                             |
| Maximum Input (W)         | 4.0                             |
| Sound Pressure Level (dB) | 84 ± 3 (3.0W/3m)@2.5K to 3.5KHz |
| Impedance (Ω)             | 16 ± 15%@1.5KHz                 |
| Frequency Range (Hz)      | Fo---4.5K                       |
| Operating Temp (°C)       | -30 ~ +70                       |
| Dimension (mm)            | Φ50.0xH17.0                     |
| Material                  | SPCC                            |

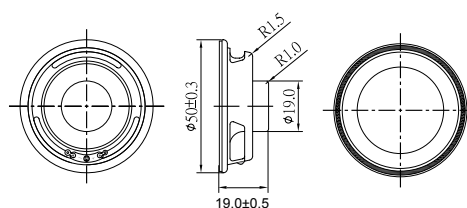
## Round Type

## MICRO SPEAKER

### KDMG50004C-30

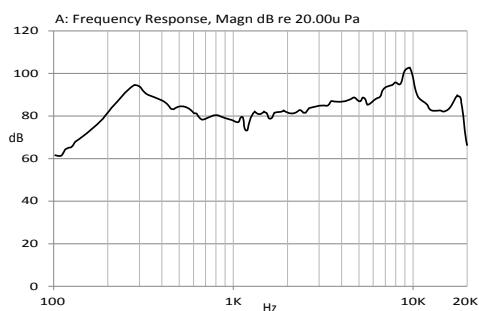


#### Dimension



Tol: ± 0.5 Unit: mm

#### Characteristic



|                           |                                             |
|---------------------------|---------------------------------------------|
| FO (Hz)                   | 350 ± 20%@1.0V                              |
| Rated Input (W)           | 3.0                                         |
| Maximum Input (W)         | 5.0                                         |
| Sound Pressure Level (dB) | 85 ± 3 (1.0W/50cm)@0.8K, 1.0K, 1.2K, 1.5KHz |
| Impedance (Ω)             | 4 ± 15%@1.0KHz 1.0V                         |
| Frequency Range (Hz)      | Fo---20K                                    |
| Operating Temp (°C)       | -40 ~ +85                                   |
| Dimension (mm)            | Φ50.0xH19.0                                 |
| Material                  | SPCC                                        |

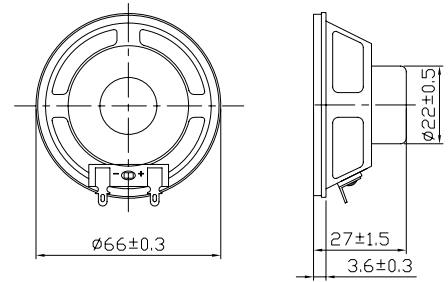
## Round Type

## MICRO SPEAKER

### KDMG66008C-50

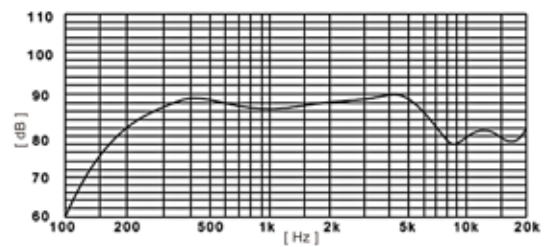


#### Dimension



Tol: ± 0.5 Unit: mm

#### Characteristic



|                           |                                                   |
|---------------------------|---------------------------------------------------|
| FO (Hz)                   | 180 ± 20% @ 1.0V                                  |
| Rated Input (W)           | 5.0                                               |
| Maximum Input (W)         | 7.0                                               |
| Sound Pressure Level (dB) | 86 ± 3 (1.0W/0.5m) @ AVG 0.8K, 1.0K, 1.2K, 1.5KHz |
| Impedance (Ω)             | 8 ± 15% @ 1.5KHz                                  |
| Frequency Range (Hz)      | Fo---10K                                          |
| Operating Temp (°C)       | -30 ~ +70                                         |
| Dimension (mm)            | Φ66.0xH27.0                                       |
| Material                  | SPCC                                              |

C Micro Speaker

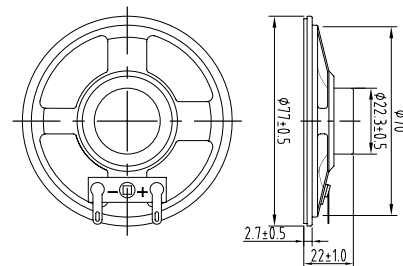
## Round Type

## MICRO SPEAKER

### KDMG77008C-30

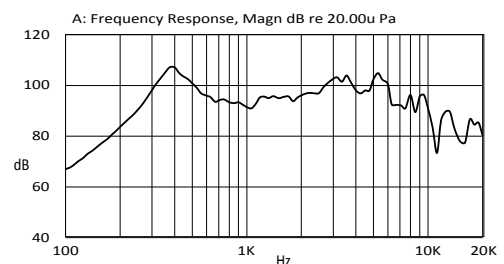


#### Dimension



Tol: ± 0.5 Unit: mm

#### Characteristic



|                           |                                                   |
|---------------------------|---------------------------------------------------|
| FO (Hz)                   | 380 ± 20% @ 1.0V                                  |
| Rated Input (W)           | 3.0                                               |
| Maximum Input (W)         | 4.0                                               |
| Sound Pressure Level (dB) | 96 ± 3 (1.0W/30cm) @ AVG 0.8K, 1.0K, 1.2K, 1.5KHz |
| Impedance (Ω)             | 8 ± 15% @ 1.5KHz/1.0V                             |
| Frequency Range (Hz)      | Fo---10K                                          |
| Operating Temp (°C)       | -30 ~ +70                                         |
| Dimension (mm)            | Φ77.0xH22.0                                       |
| Material                  | Metal                                             |

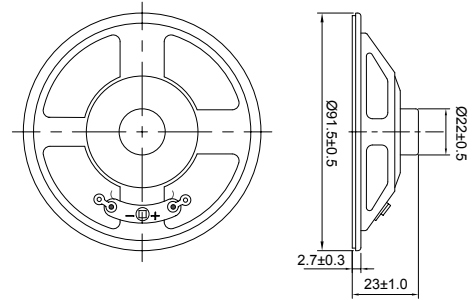
## Round Type

## MICRO SPEAKER

### KDMG92008C-20

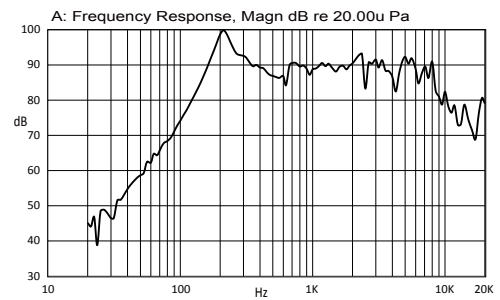


#### Dimension



Tol: ± 0.5 Unit: mm

#### Characteristic



|                           |                                                 |
|---------------------------|-------------------------------------------------|
| FO (Hz)                   | 200 ± 20%@1.0V                                  |
| Rated Input (W)           | 2.0                                             |
| Maximum Input (W)         | 3.0                                             |
| Sound Pressure Level (dB) | 86 ± 3 (1.0W/0.5m)@AVG 0.4K, 0.5K, 0.6K, 0.8KHz |
| Impedance (Ω)             | 8 ± 15%@1.0KHz                                  |
| Frequency Range (Hz)      | Fo---8K                                         |
| Operating Temp (°C)       | -20 ~ +55                                       |
| Dimension (mm)            | Ø91.5xH23.0                                     |
| Material                  | Metal                                           |

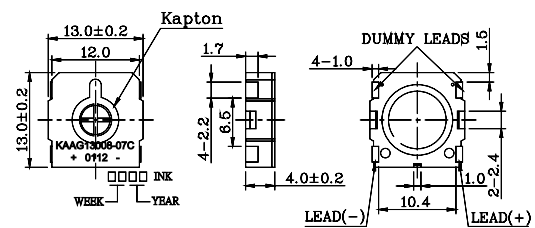
## SMD Type

## MICRO SPEAKER

### KAAG13008-07C

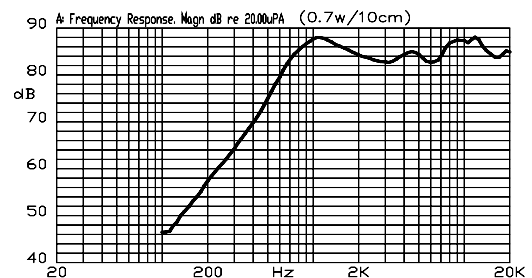


#### Dimension



Tol: ± 0.5 Unit: mm

#### Characteristic



|                           |                                                             |
|---------------------------|-------------------------------------------------------------|
| FO (Hz)                   | 850 ± 20%@1.0V                                              |
| Rated Input (W)           | 0.7                                                         |
| Maximum Input (W)         | 1.0                                                         |
| Sound Pressure Level (dB) | 87 ± 3 (0.7W/10cm), 70 ± 3 (1W/1m)@1.0K, 1.6K, 2.0K, 3.2KHz |
| Impedance (Ω)             | 8 ± 15%@1.5KHz 1.0V                                         |
| Frequency Range (Hz)      | Fo---20K                                                    |
| Operating Temp (°C)       | -30 ~ +70                                                   |
| Dimension (mm)            | L13xW13xH4.0                                                |
| Material                  | LCP (BLACK) PIN Plating Au 2-3u                             |

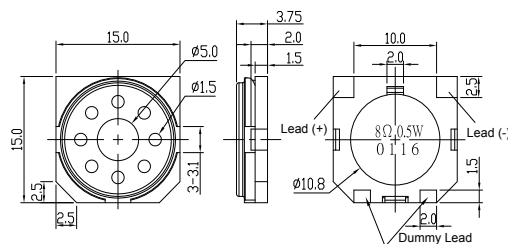
## SMD Type

## MICRO SPEAKER

### KDMG151508-05

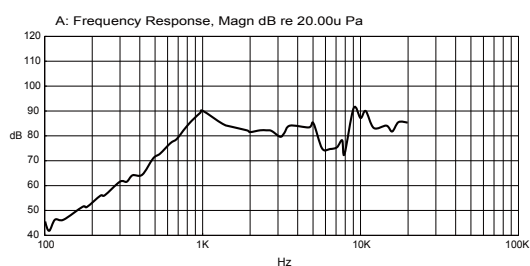


#### Dimension



Tol: ± 0.5 Unit: mm

#### Characteristic



|                           |                                                   |
|---------------------------|---------------------------------------------------|
| FO (Hz)                   | 1,000 ± 20% @ 1.0V                                |
| Rated Input (W)           | 0.5                                               |
| Maximum Input (W)         | 0.7                                               |
| Sound Pressure Level (dB) | 86 ± 3 (0.5W/10cm) @ AVG 1.0K, 1.2K, 1.5K, 2.0KHz |
| Impedance (Ω)             | 8 ± 15% 1.0KHz 1.0V                               |
| Frequency Range (Hz)      | Fo---20K                                          |
| Operating Temp (°C)       | -40 ~ +85                                         |
| Dimension (mm)            | L15.0xW15.0xH3.75                                 |
| Material                  | LCP                                               |

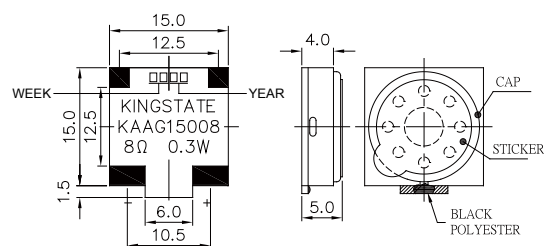
## SMD Type

## MICRO SPEAKER

### KAAG15008C

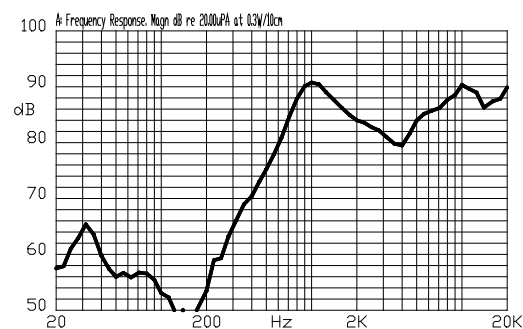


#### Dimension



Tol: ± 0.5 Unit: mm

#### Characteristic



|                           |                                                              |
|---------------------------|--------------------------------------------------------------|
| FO (Hz)                   | 850 ± 20% @ 1.0V                                             |
| Rated Input (W)           | 0.3                                                          |
| Maximum Input (W)         | 0.5                                                          |
| Sound Pressure Level (dB) | 87 ± 3 (0.3W/10cm), 73 ± 3 (1W/1m) @ 1.0K, 1.2K, 1.5K 2.0KHz |
| Impedance (Ω)             | 8 ± 15% @ 1.0KHz 1.0V                                        |
| Frequency Range (Hz)      | Fo---20K                                                     |
| Operating Temp (°C)       | -40 ~ +85                                                    |
| Dimension (mm)            | L15.0xW15.0xH5.0                                             |
| Material                  | L.C.P                                                        |

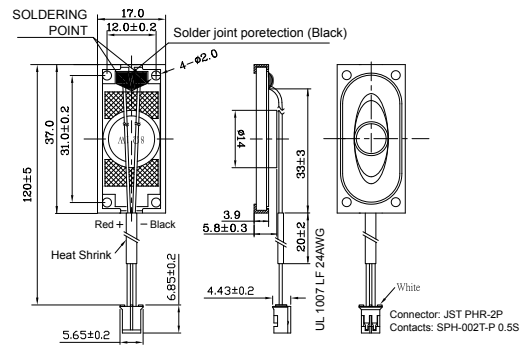
## Square Type

## MICRO SPEAKER

### KDSG3516008-10E

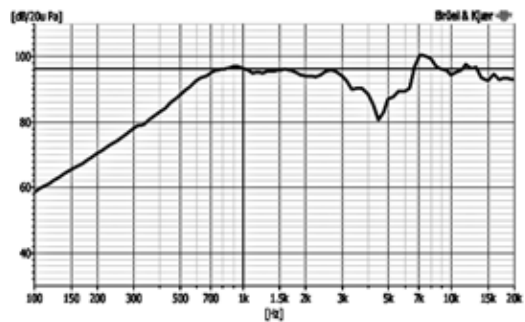


#### Dimension



Tol: ± 0.5 Unit: mm

#### Characteristic



|                           |                                                   |
|---------------------------|---------------------------------------------------|
| FO (Hz)                   | 650 ± 20% @ 1.0V                                  |
| Rated Input (W)           | 1.0                                               |
| Maximum Input (W)         | 2.0                                               |
| Sound Pressure Level (dB) | 95 ± 3 (0.5W/10cm) @ AVG 1.0K, 1.2K, 1.5K, 2.0KHz |
| Impedance (Ω)             | 8 ± 15% @ 1.0KHz 1.0V                             |
| Frequency Range (Hz)      | Fo---20K                                          |
| Operating Temp (°C)       | -20 ~ +55                                         |
| Dimension (mm)            | L37.0xW17.0xH5.8                                  |
| Material                  | ABS UL-94 1/16" HB                                |

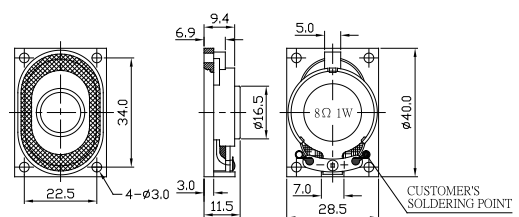
## Square Type

## MICRO SPEAKER

### KDSG4028008LS-10

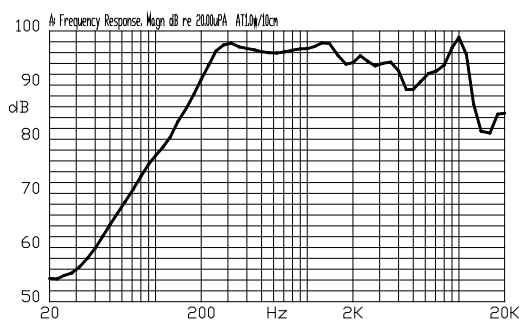


#### Dimension



Tol: ± 0.5 Unit: mm

#### Characteristic



|                           |                                                             |
|---------------------------|-------------------------------------------------------------|
| FO (Hz)                   | 390 ± 20% @ 1.0V                                            |
| Rated Input (W)           | 1.0                                                         |
| Maximum Input (W)         | 2.0                                                         |
| Sound Pressure Level (dB) | 97 ± 3 (1W/10cm), 78 ± 3 (1W/1m) @ 0.6K, 0.8K, 1.0K, 1.2KHz |
| Impedance (Ω)             | 8 ± 15% @ 1.0KHz 1.0V                                       |
| Frequency Range (Hz)      | Fo---15K                                                    |
| Operating Temp (°C)       | -20 ~ +55                                                   |
| Dimension (mm)            | L40.0xW22.5xH11.5                                           |
| Material                  | ABS UL-94 1/16" HB (Black)                                  |

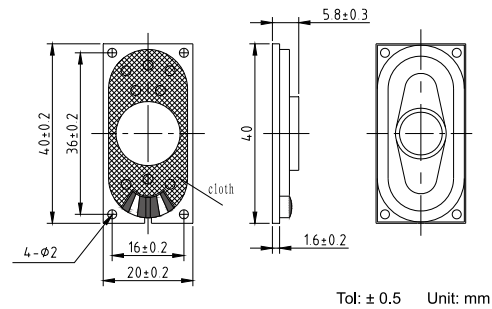
## Square Type

## MICRO SPEAKER

### KDMG4020008C-20A

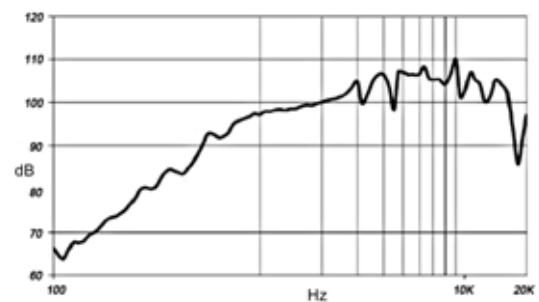


#### Dimension



Tol: ± 0.5 Unit: mm

#### Characteristic



|                           |                                                   |
|---------------------------|---------------------------------------------------|
| FO (Hz)                   | 750 ± 20% @ 1.0V                                  |
| Rated Input (W)           | 2.0                                               |
| Maximum Input (W)         | 2.5                                               |
| Sound Pressure Level (dB) | 97 ± 3 (2.0W/10cm) @ AVG 1.0K, 1.2K, 1.5K, 2.0KHz |
| Impedance (Ω)             | 8 ± 15% @ 2.0KHz                                  |
| Frequency Range (Hz)      | Fo---20K                                          |
| Operating Temp (°C)       | -30 ~ +85                                         |
| Dimension (mm)            | L40.0xW20.0xH5.8                                  |
| Material                  | Metal                                             |

C Micro Speaker

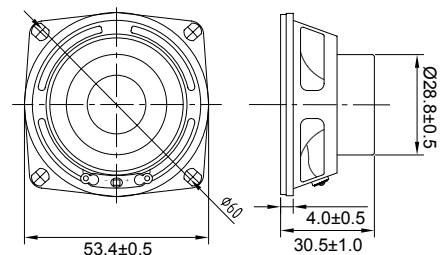
## Square Type

## MICRO SPEAKER

### KDMG53008C-100

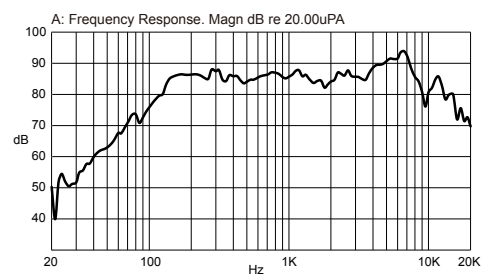


#### Dimension



Tol: ± 0.5 Unit: mm

#### Characteristic



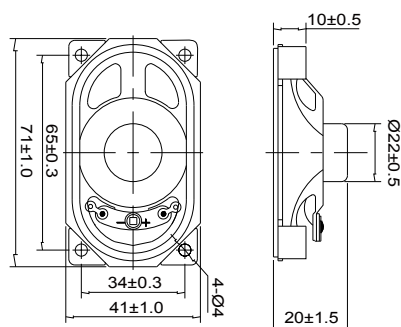
|                           |                                                   |
|---------------------------|---------------------------------------------------|
| FO (Hz)                   | 150 ± 20% @ 1.0V                                  |
| Rated Input (W)           | 10.0                                              |
| Maximum Input (W)         | 15.0                                              |
| Sound Pressure Level (dB) | 85 ± 3 (1.0W/0.5m) @ AVG 0.4K, 0.5K, 0.6K, 0.8KHz |
| Impedance (Ω)             | 8 ± 15% @ 1.0KHz/1.0V                             |
| Frequency Range (Hz)      | Fo---10K                                          |
| Operating Temp (°C)       | -30 ~ +70                                         |
| Dimension (mm)            | Φ53.4xH30.5                                       |
| Material                  | SPCC                                              |

## Square Type

## MICRO SPEAKER

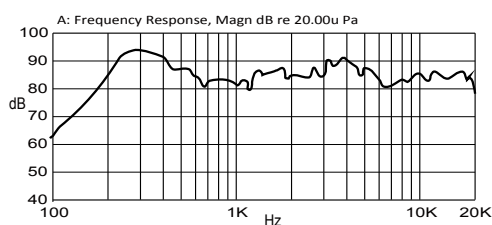
TRFG7040008C-50

### Dimension



Tol: ± 0.5 Unit: mm

### Characteristic



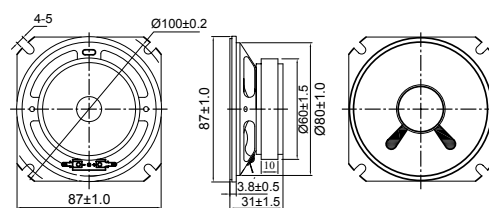
|                           |                                                   |
|---------------------------|---------------------------------------------------|
| FO (Hz)                   | 300 ± 20% @ 1.0V                                  |
| Rated Input (W)           | 5.0                                               |
| Maximum Input (W)         | 6.0                                               |
| Sound Pressure Level (dB) | 83 ± 3 (1.0W/0.5m) @ AVG 0.8K, 1.0K, 1.2K, 1.5KHz |
| Impedance (Ω)             | 8 ± 15% @ 2.0KHz 1.0V                             |
| Frequency Range (Hz)      | Fo---10K                                          |
| Operating Temp (°C)       | -30 ~ +70                                         |
| Dimension (mm)            | L71.0xW41.0xH20.0                                 |
| Material                  | SPCC                                              |

## Square Type

## MICRO SPEAKER

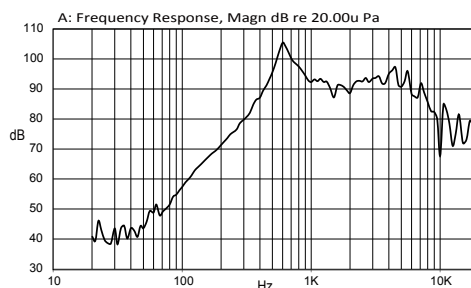
KDMG8787008C-100

### Dimension



Tol: ± 0.5 Unit: mm

### Characteristic



|                           |                                                   |
|---------------------------|---------------------------------------------------|
| FO (Hz)                   | 550 ± 20% @ 1.0V                                  |
| Rated Input (W)           | 10.0                                              |
| Maximum Input (W)         | 15.0                                              |
| Sound Pressure Level (dB) | 92 ± 3 (1.0W/0.5m) @ AVG 0.8K, 1.0K, 1.2K, 1.5KHz |
| Impedance (Ω)             | 8 ± 15% @ 1.5KHz                                  |
| Frequency Range (Hz)      | Fo---10K                                          |
| Operating Temp (°C)       | -20 ~ +60                                         |
| Dimension (mm)            | L87.0xW87.0xH31.0                                 |
| Material                  | SPCC                                              |

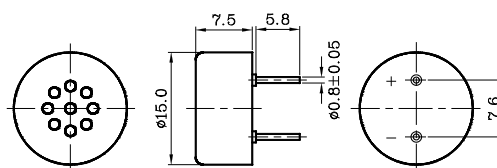
## Round Type

## SPEAKER TRANSDUCER

### KSSG1508

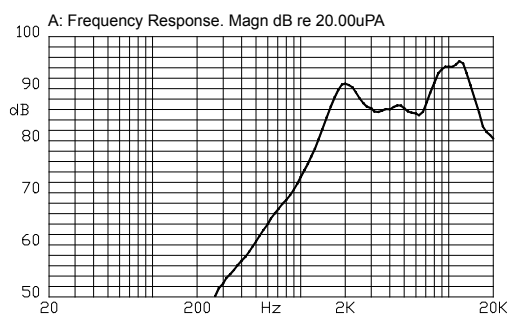


#### Dimension



Tol: ± 0.5 Unit: mm

#### Characteristic



|                           |                                                               |
|---------------------------|---------------------------------------------------------------|
| FO (Hz)                   | 1,700 ± 20% @ 1.0V                                            |
| Rated Input (W)           | 0.3                                                           |
| Maximum Input (W)         | 0.5                                                           |
| Sound Pressure Level (dB) | 87 ± 3 (0.3W/10cm), 73 ± 3 (1W/1m) @ 2.0K, 2.5K, 3.0K, 4.0KHz |
| Impedance (Ω)             | 8 ± 15% @ 3.0KHz 1.0V                                         |
| Frequency Range (Hz)      | Fo---20K                                                      |
| Operating Temp (°C)       | -20 ~ +55                                                     |
| Dimension (mm)            | Φ15.0xH7.5                                                    |
| Material                  | PBT+20% GLASS                                                 |

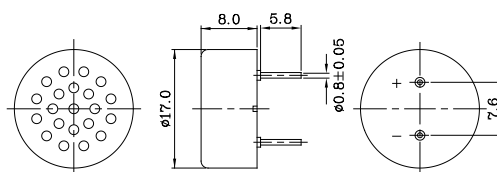
## Round Type

## SPEAKER TRANSDUCER

### KSSG1708

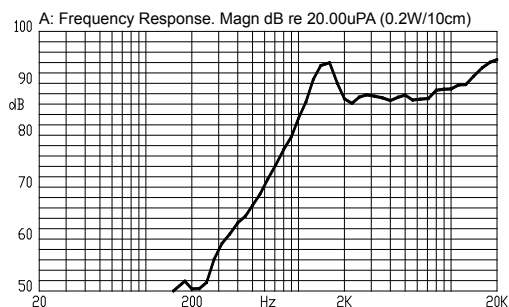


#### Dimension



Tol: ± 0.5 Unit: mm

#### Characteristic



|                           |                                                               |
|---------------------------|---------------------------------------------------------------|
| FO (Hz)                   | 1,500 ± 20% @ 1.0V                                            |
| Rated Input (W)           | 0.2                                                           |
| Maximum Input (W)         | 0.5                                                           |
| Sound Pressure Level (dB) | 87 ± 3 (0.2W/10cm), 74 ± 3 (1W/1m) @ 2.0K, 2.5K, 3.0K, 4.0KHz |
| Impedance (Ω)             | 8 ± 15% @ 2.0KHz 1.0V                                         |
| Frequency Range (Hz)      | Fo---20K                                                      |
| Operating Temp (°C)       | -20 ~ +55                                                     |
| Dimension (mm)            | Φ17.0xH8.0                                                    |
| Material                  | PBT+20% Glass (Black)                                         |

C

Micro Speaker

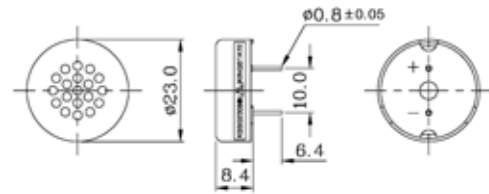
## Round Type

## SPEAKER TRANSDUCER

### KSSG2308

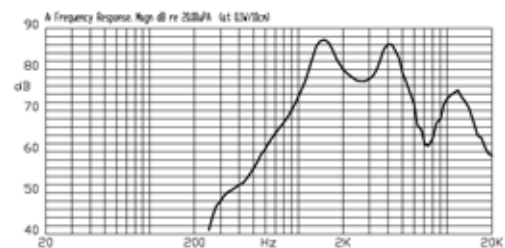


#### Dimension



Tol:  $\pm 0.5$  Unit: mm

#### Characteristic



|                                |                                                                          |
|--------------------------------|--------------------------------------------------------------------------|
| FO (Hz)                        | 1,500 $\pm$ 20% @ 1.0V                                                   |
| Rated Input (W)                | 0.1                                                                      |
| Maximum Input (W)              | 0.15                                                                     |
| Sound Pressure Level (dB)      | 88 $\pm$ 3 (0.1W/10cm), 77 $\pm$ 3 (1W/1m)<br>@ 2.0K, 2.5K, 3.0K, 4.0KHz |
| Impedance ( $\Omega$ )         | 8 $\pm$ 15% @ 2.0KHz, 1.0V                                               |
| Frequency Range (Hz)           | Fo---6K                                                                  |
| Operating Temp ( $^{\circ}$ C) | -20 ~ +55                                                                |
| Dimension (mm)                 | $\Phi$ 23.0xH8.4                                                         |
| Material                       | ABS UL-94 1/16" HB (Black)                                               |

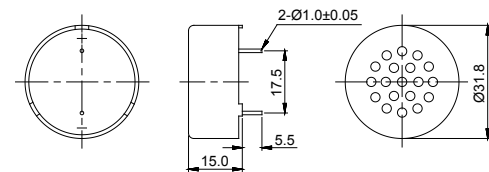
## Round Type

## SPEAKER TRANSDUCER

### KSSG3108

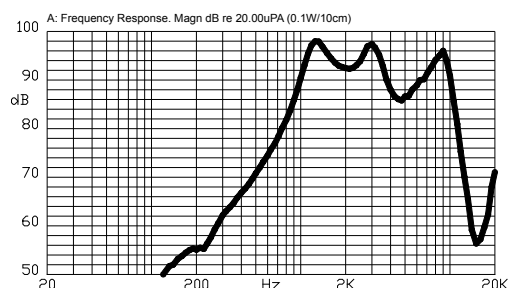


#### Dimension



Tol:  $\pm 0.5$  Unit: mm

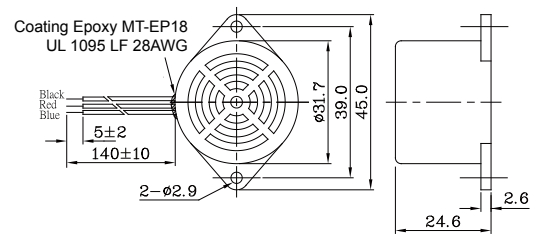
#### Characteristic



|                                |                                                                       |
|--------------------------------|-----------------------------------------------------------------------|
| FO (Hz)                        | 1,250 $\pm$ 200% @ 1.0V                                               |
| Rated Input (W)                | 0.1                                                                   |
| Maximum Input (W)              | 0.2                                                                   |
| Sound Pressure Level (dB)      | 95 $\pm$ 3 (0.1W/10cm), 85 $\pm$ 3 (1W/1m) @ 1.5K, 2.0K, 2.5K, 3.0KHz |
| Impedance ( $\Omega$ )         | 8 $\pm$ 20% @ 1.0KHz 1.0V                                             |
| Frequency Range (Hz)           | Fo---4K                                                               |
| Operating Temp ( $^{\circ}$ C) | -20 ~ +55                                                             |
| Dimension (mm)                 | $\Phi$ 31.8xH20.5                                                     |
| Material                       | ABS UL-94 1/16" HB                                                    |

## KMPG666-4

## Dimension



Tol: ± 0.5 Unit: mm

## Characteristic

|                            |                                                             |
|----------------------------|-------------------------------------------------------------|
| Current Consumption (mA)   | Max. 90@6VDC, Max. 125@12VDC<br>Max. 155@18VDC              |
| Sound Pressure Level (dB)  | Min. 75@6VDC/30cm, Min. 80@12VDC/30cm<br>Min. 82@18VDC/30cm |
| Rated Frequency (Hz)       | 1,230/1,010 ± 80                                            |
| Operating Voltage (VDC)    | 6 ~ 18                                                      |
| Tone                       | Ding Dong                                                   |
| Operating Temperature (°C) | -20 ~ +55                                                   |
| Storage Temperature (°C)   | -25 ~ +60                                                   |
| Dimension (mm)             | Φ31.7xH24.6                                                 |
| Material                   | ABS UL-94 1/16" HB (Black)                                  |

