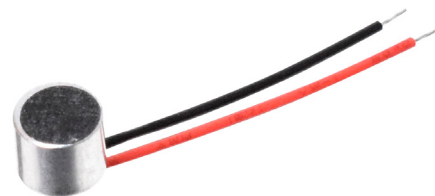


**MODEL:** CMEJ-0605-36-L030 | **DESCRIPTION:** ELECTRET CONDENSER MICROPHONE**FEATURES**

- omnidirectional
- 6 mm diameter
- 30 mm lead wires

**ELECTRICAL**

| parameter                            | conditions/description                                   | min | typ | max    | units      |
|--------------------------------------|----------------------------------------------------------|-----|-----|--------|------------|
| directivity                          | omnidirectional                                          |     |     |        |            |
| sensitivity (S)                      | at 1 kHz (0 dB = 1 V/Pa)                                 | -38 | -36 | -34    | dB         |
| supply voltage (V <sub>DD</sub> )    |                                                          | 1.0 | 2.0 | 10     | V          |
| current consumption                  | V <sub>DD</sub> = 2.0 V, R <sub>L</sub> = 2.2 k $\Omega$ |     |     | 0.5    | mA         |
| sensitivity reduction                | V <sub>DD</sub> = 2.0 ~ 1.5 V                            |     |     | 3      | dB         |
| frequency (f)                        |                                                          | 100 |     | 10,000 | Hz         |
| signal to noise ratio (S/N)          | at 1 kHz, P <sub>in</sub> = 1 Pa (A-weighted)            |     | 60  |        | dBA        |
| total harmonic distortion (THD)      | at 94 dB SPL, 1 kHz                                      |     |     | 1      | %          |
|                                      | at 115 dB SPL, 1 kHz                                     |     |     | 3      | %          |
| acoustic overload point (AOP)        | at 1 kHz                                                 |     |     | 115    | dB SPL     |
| output impedance (Z <sub>out</sub> ) | at 1 kHz                                                 |     |     | 2.2    | k $\Omega$ |

Notes: 1. All specifications measured at 20 $\pm$ 2°C, humidity at 60~70%, unless otherwise noted.

**ENVIRONMENTAL**

| parameter             | conditions/description | min | typ | max | units |
|-----------------------|------------------------|-----|-----|-----|-------|
| operating temperature |                        | -40 |     | 70  | °C    |
| storage temperature   |                        | -40 |     | 85  | °C    |
| operating humidity    | non-condensing         | 30  |     | 85  | %     |
| storage humidity      | non-condensing         | 30  |     | 75  | %     |
| hand soldering        | for 1~3 seconds        | 340 | 350 | 360 | °C    |
| RoHS                  | yes                    |     |     |     |       |

## MECHANICAL

| parameter     | conditions/description | min | typ  | max | units |
|---------------|------------------------|-----|------|-----|-------|
| dimensions    | Ø6.0 x 5.0             |     |      |     | mm    |
| acoustic port | top                    |     |      |     |       |
| terminals     | wires leads            |     |      |     |       |
| weight        |                        |     | 0.27 |     | g     |

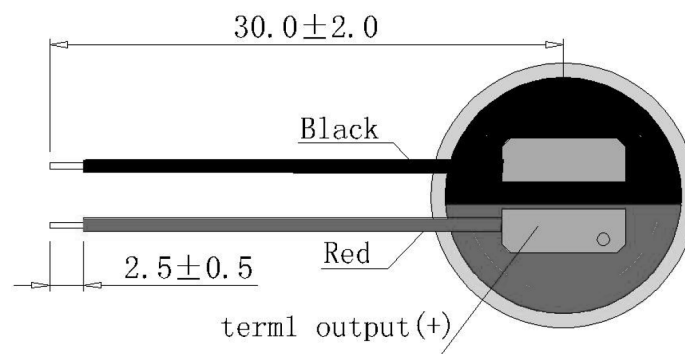
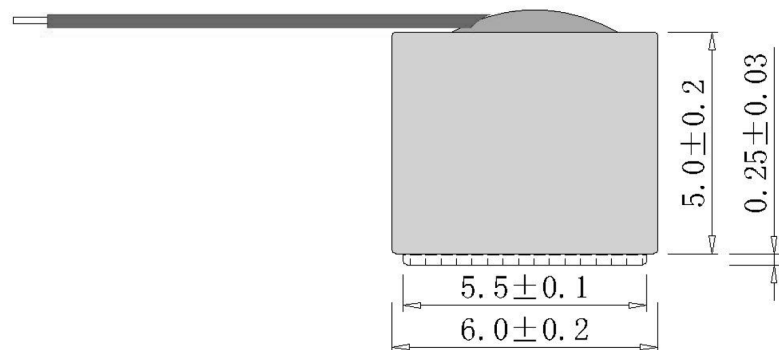
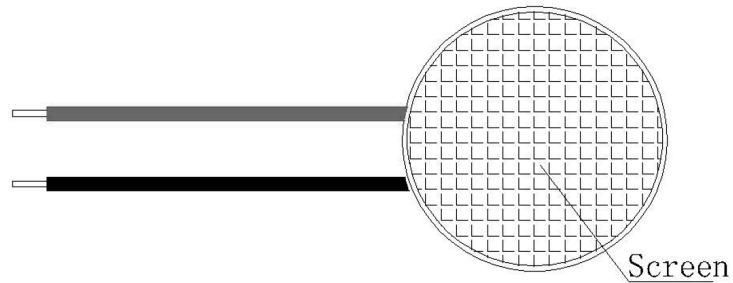
## MECHANICAL DRAWING

units: mm

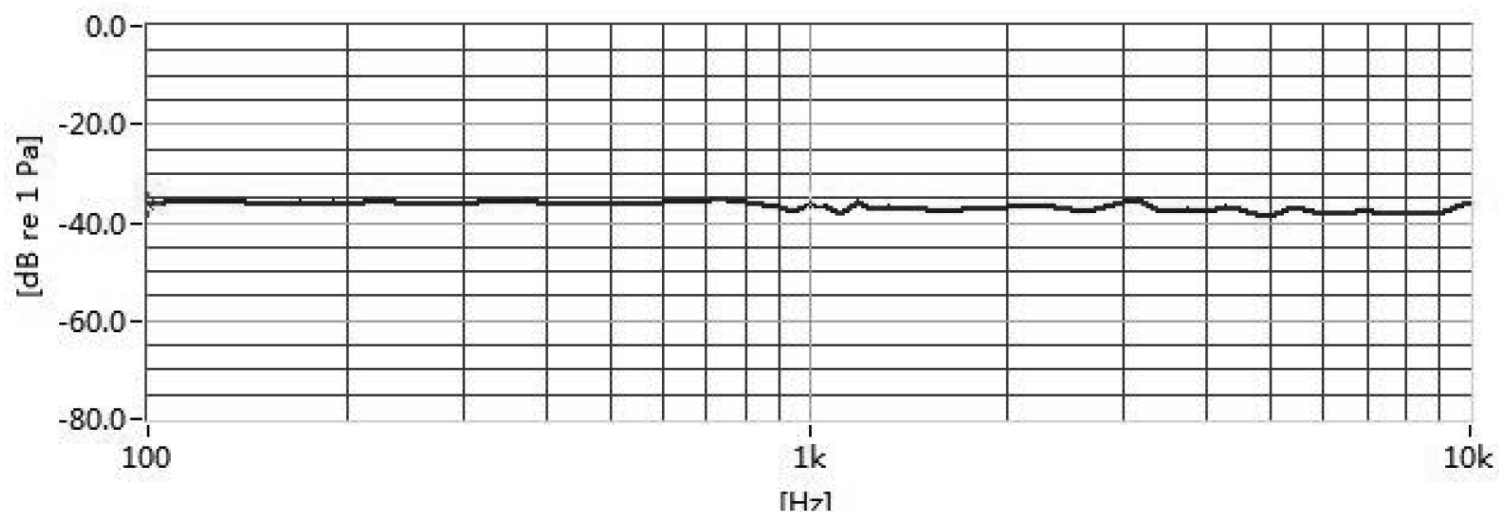
tolerance:  $\pm 0.2$  mm

wire: UL 1571, 26 AWG

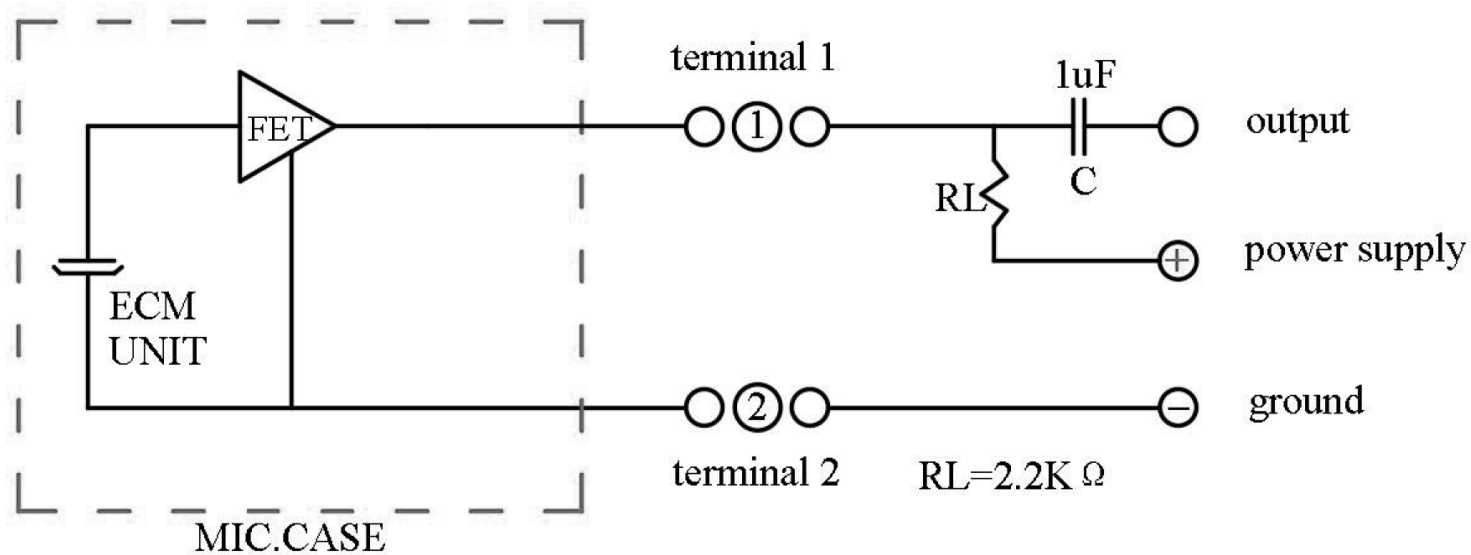
| WIRE CONNECTIONS |            |            |
|------------------|------------|------------|
| TERM.            | WIRE COLOR | FUNCTION   |
| 1                | Red        | Output (+) |
| 2                | Black      | GND (-)    |



## FREQUENCY RESPONSE CURVE

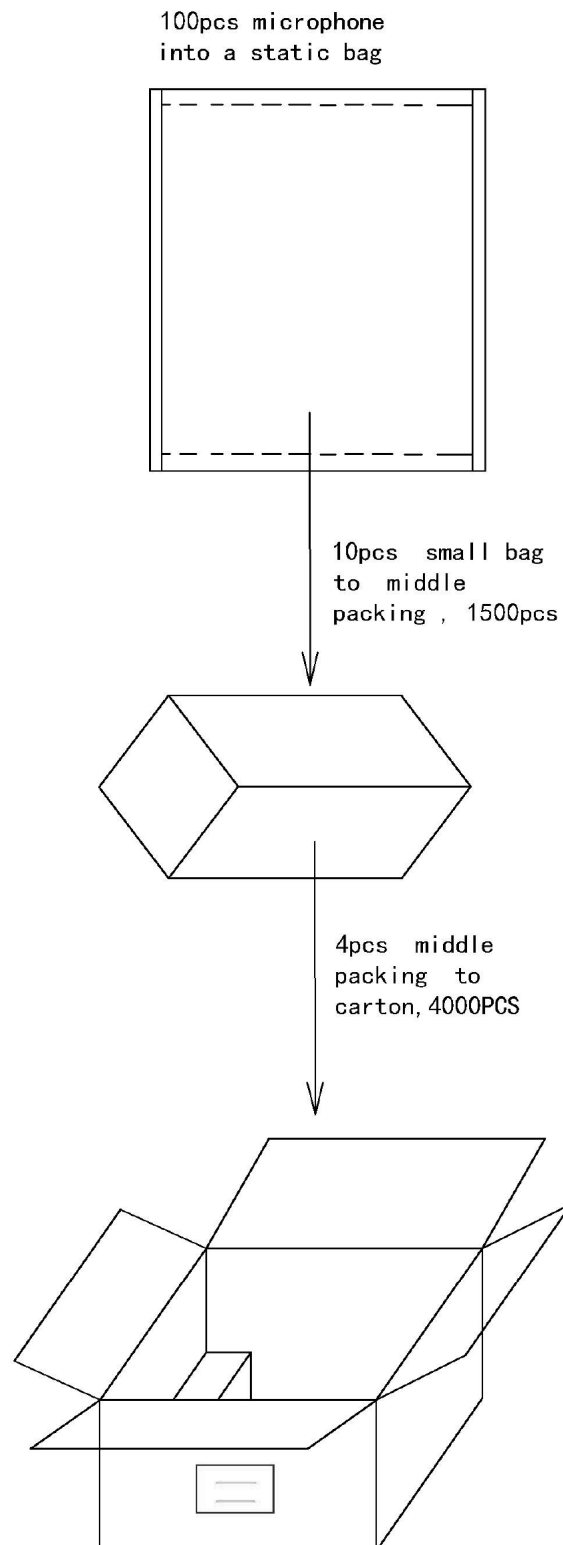


## APPLICATION CIRCUIT



## PACKAGING

Carton QTY: 4,000 pcs



## REVISION HISTORY

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| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 06/05/2019 |

The revision history provided is for informational purposes only and is believed to be accurate.



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CUI offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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