

**MODEL:** CMC-6022-37T | **DESCRIPTION:** ELECTRET CONDENSER MICROPHONE

**FEATURES**

- omnidirectional
- -37 dB sensitivity rating
- terminal mount


**SPECIFICATIONS**

| parameter                       | conditions/description              | min | typ | max    | units |
|---------------------------------|-------------------------------------|-----|-----|--------|-------|
| directivity                     | omnidirectional                     |     |     |        |       |
| sensitivity (S)                 | f = 1 kHz, 1 Pa, 0 dB = 1 V/Pa      | -40 | -37 | -34    | dB    |
| standard operating voltage (Vs) |                                     |     | 2   |        | Vdc   |
| max operating voltage           |                                     |     |     | 10     | Vdc   |
| output impedance (Zout)         | f = 1 kHz, 1 Pa                     |     | 2.2 |        | kΩ    |
| sensitivity reduction (ΔS-Vs)   | f = 1 kHz, 1 Pa, Vs = 2.0 ~ 1.0 Vdc |     | -3  |        | dB    |
| frequency (f)                   |                                     | 100 |     | 20,000 | Hz    |
| current consumption (IDSS)      | Vs = 2.0 Vdc, RL = 2.2 kΩ           |     |     | 0.5    | mA    |
| signal to noise ratio (S/N)     | f = 1 kHz, 1 Pa, A-weighted         |     | 65  |        | dBA   |
| dimensions                      | Ø6.0 x2.2                           |     |     |        | mm    |
| material                        | Al                                  |     |     |        |       |
| terminal                        | solder pads                         |     |     |        |       |
| weight                          |                                     |     |     | 0.2    | g     |
| operating temperature           |                                     | -20 |     | 70     | °C    |
| storage temperature             |                                     | -20 |     | 70     | °C    |
| RoHS                            | 2011/65/EU                          |     |     |        |       |

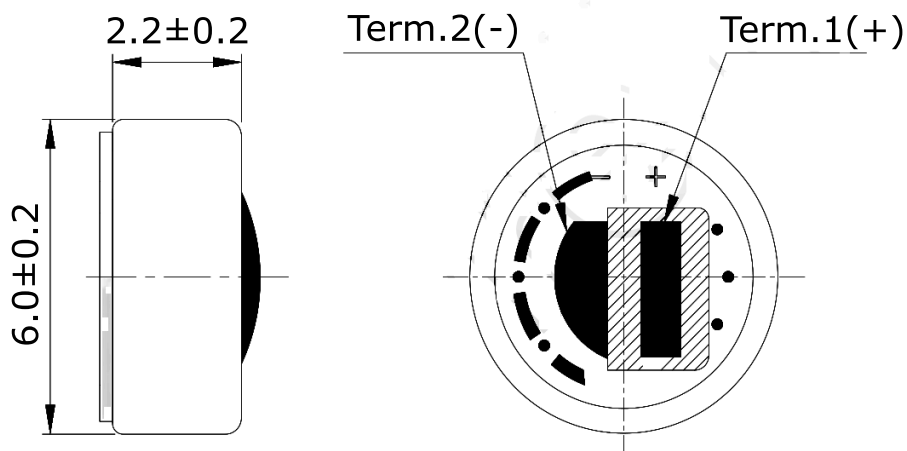
Notes: 1. We use the "Pascal (Pa)" indication of sensitivity as per the recommendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase 20 dB compared to the "ubar" indication. Example: -60 dB (0 dB = 1 V/ubar) = -40 dB (1V/Pa)  
 2. All specifications measured at 5~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

**SOLDERABILITY**

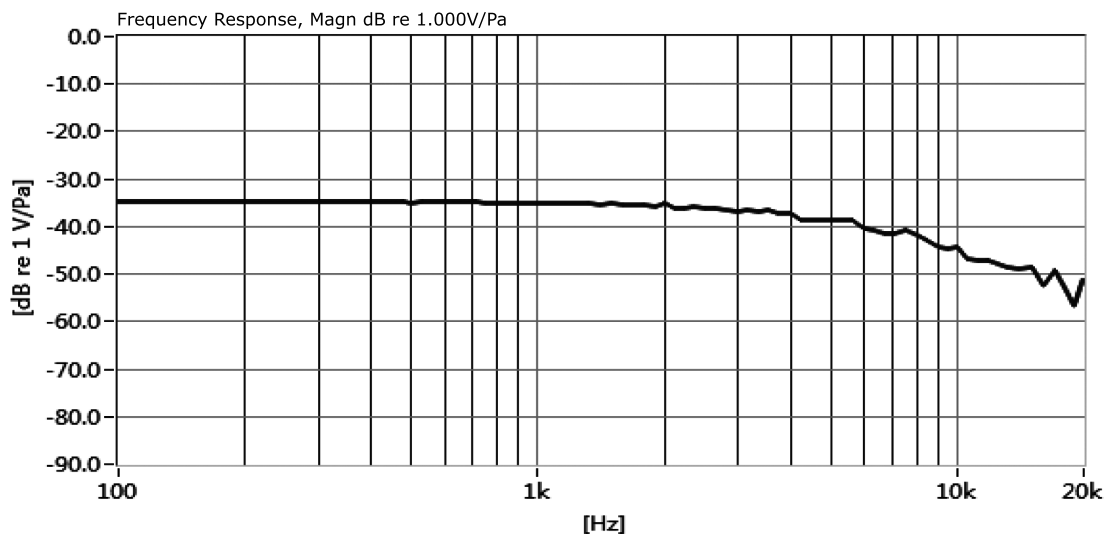
| parameter      | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| hand soldering | for maximum 2 seconds  | 310 | 320 | 330 | °C    |

## MECHANICAL DRAWING

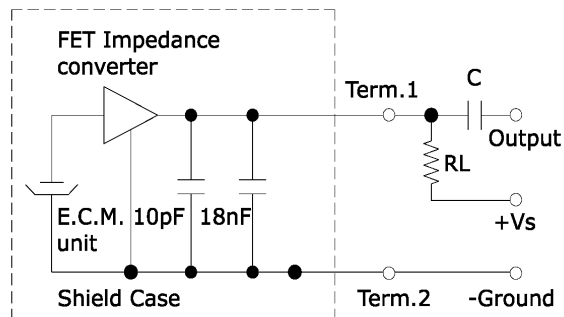
units: mm  
tolerance:  $\pm 0.2$  mm



## FREQUENCY RESPONSE CURVE



## MEASUREMENT CIRCUIT

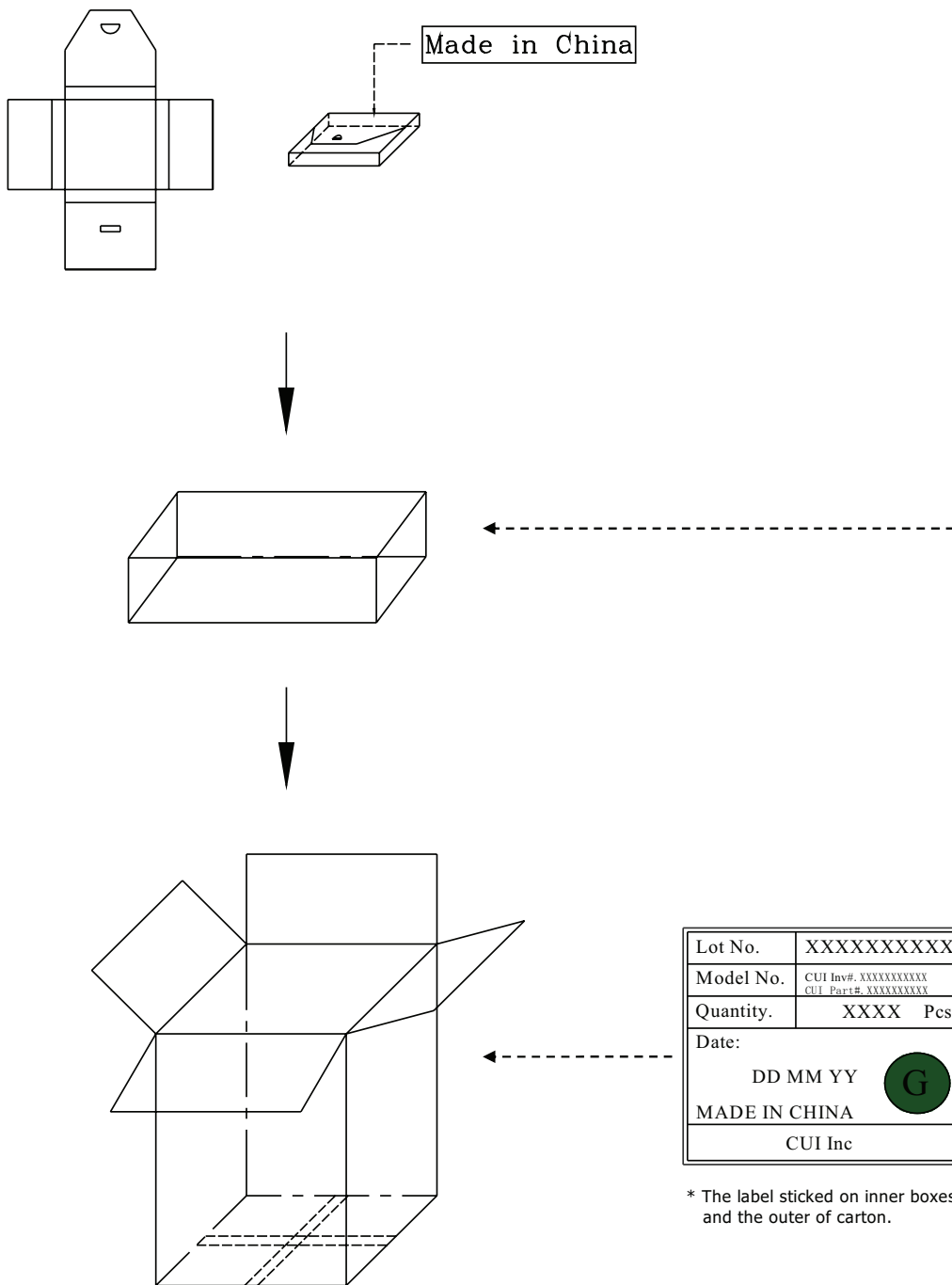


RL = 2.2 k $\Omega$   
C = 1  $\mu$ F

## PACKAGING

units: mm

Inner Box Size: 62 x 62 x 3 mm  
 Middle Box Size: 125 x 65 x 28 mm  
 Outer Box Size: 210 x 210 x 280 mm  
 Inner Box QTY: 100 pcs per box  
 Middle Box QTY: 1,000 pcs per box  
 Outer Box QTY: 40,000 pcs per box



\* The label stuck on inner boxes and the outer of carton.

## REVISION HISTORY

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| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 11/07/2016 |

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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