



MODEL: CMC-4015-130T | DESCRIPTION: ELECTRET CONDENSER MICROPHONE

FEATURES

- high AOP of 130 dB
- omnidirectional
- 4 mm diameter
- solder terminals
- IP67 rated



SPECIFICATIONS

| parameter                       | conditions/description                     | min | typ | max    | units  |
|---------------------------------|--------------------------------------------|-----|-----|--------|--------|
| directivity                     | omnidirectional                            |     |     |        |        |
| sensitivity [S]                 | f = 1 kHz, 1 Pa, 0 dB = 1 V/Pa             | -45 | -42 | -39    | 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 [IOSS]      | Vs = 2.0 Vdc, RL = 2.2 kΩ                  |     | 0.5 |        | mA     |
| signal to noise ratio [S/N]     | f = 1 kHz, 1 Pa, A-weighted                |     | 60  |        | dBA    |
| acoustic overload point [AOP]   | at 1 kHz, THD <10%                         |     |     | 130    | dB SPL |
| total harmonic distortion       | at 1 kHz, 94 dB SPL                        |     |     | 1      | %      |
| dimensions                      | Ø4.0 x 1.5                                 |     |     |        | mm     |
| material                        | Al                                         |     |     |        |        |
| terminal                        | solder pads                                |     |     |        |        |
| weight                          |                                            |     |     | 0.1    | g      |
| operating temperature           |                                            | -20 |     | 70     | °C     |
| storage temperature             |                                            | -20 |     | 70     | °C     |
| RoHS                            | yes                                        |     |     |        |        |
| IP level                        | IP67 [IEC standard 529 edition 2.0 (1989)] |     |     |        |        |

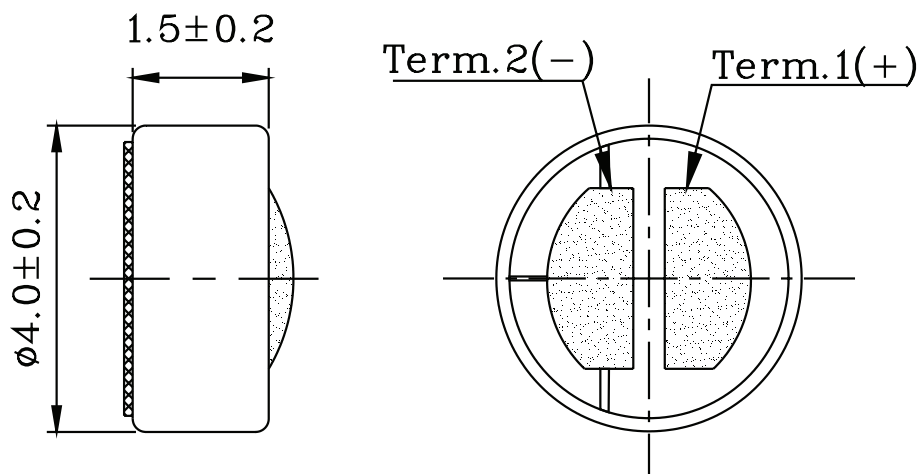
Notes: 1. We use the "Pascal [Pa]" indication of sensitivity as per the recommendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase 20 dB compared to the "ubar" indication. Example: -60 dB (0 dB = 1 V/ubar) = -40 dB ( 1V/Pa)  
2. All specifications measured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

SOLDERABILITY

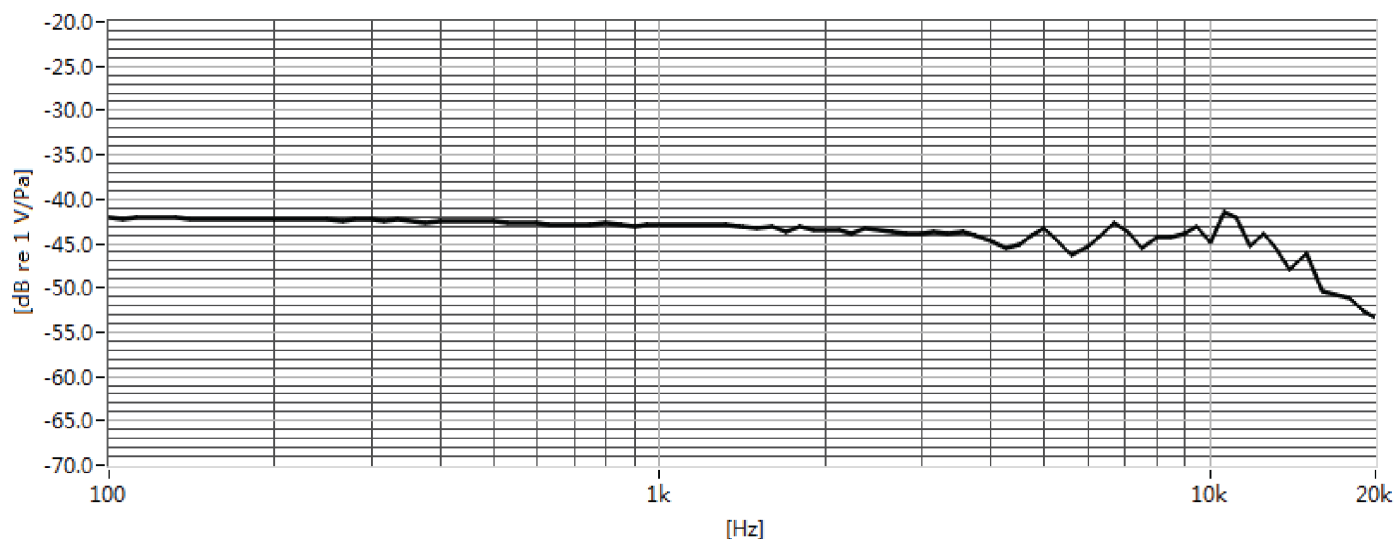
| parameter      | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| hand soldering | for maximum 2 seconds  | 340 | 350 | 360 | °C    |

## MECHANICAL DRAWING

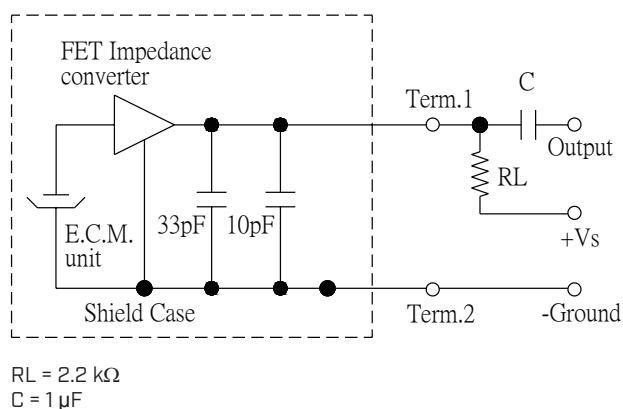
units: mm  
tolerance:  $\pm 0.25$  mm



## FREQUENCY RESPONSE CURVE



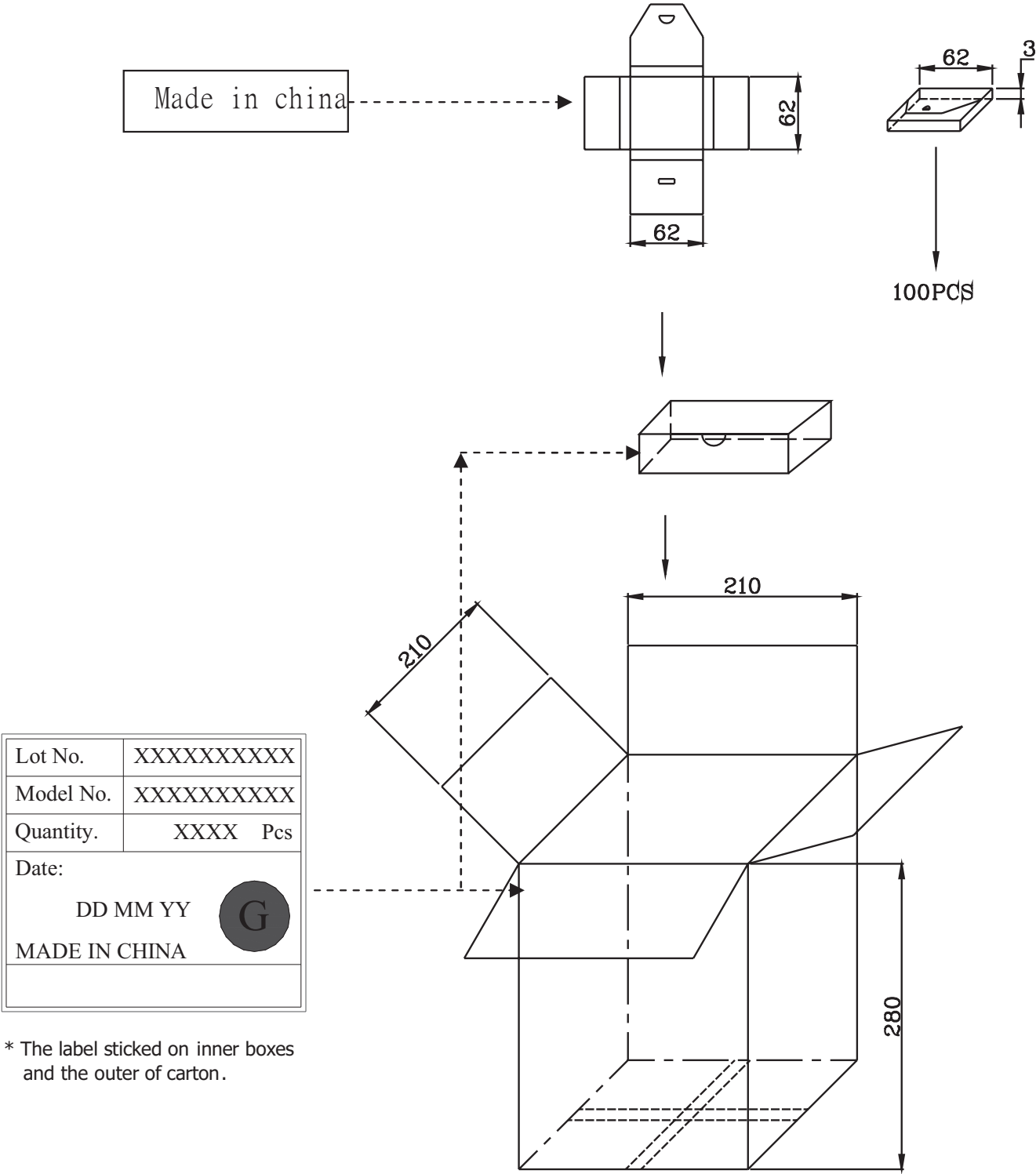
## MEASUREMENT CIRCUIT



**PACKAGING**

units: mm

Inner Box Size: 62 x 62 x 3 mm  
Middle Box Size: 125 x 65 x 28 mm  
Carton Size: 210 x 210 x 280 mm  
Inner Box QTY: 100 pcs  
Middle Box QTY: 1,000 pcs  
Carton QTY: 10,000 pcs per carton



## REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 09/29/2017 |
| 1.01 | added polarity details to drawing | 01/23/2019 |
| 1.02 | updated datasheet                 | 03/14/2019 |
| 1.03 | brand update                      | 01/15/2020 |
| 1.04 | logo, datasheet style update      | 08/05/2022 |
| 1.05 | CUI Devices rebranded to Same Sky | 09/11/2024 |

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



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