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CUDEVICES



# **MODEL:** CMC-6035-130T | **DESCRIPTION:** ELECTRET CONDENSER MICROPHONE

## FEATURES

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



RoHS

## 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 ~ 1.5 Vdc | | -3 | | dB |
| frequency (f) | | 100 | | 20,000 | Hz |
| current consumption ($I_{DSS}$) | Vs = 2.0 Vdc, RL = 2.2 kΩ | | 0.5 | | mA |
| signal to noise ratio (S/N) | f = 1 kHz, 1 Pa, A-weighted | | 70 | | dBA |
| acoustic overload point (AOP) | at 1 kHz, THD <10% | | | 130 | dB SPL |
| total harmonic distortion | at 1 kHz, 94 dB SPL | | | 1 | % |
| dimensions | Ø6.0 x 2.7 | | | | mm |
| material | Al | | | | |
| terminal | solder pads | | | | |
| weight | | | | 0.20 | g |
| operating temperature | | -20 | | 70 | °C |
| storage temperature | | -20 | | 70 | °C |
| RoHS | yes | | | | |
| IP level | IP67 (IEC standard 529 edition 2.0 (1989)) | | | | |

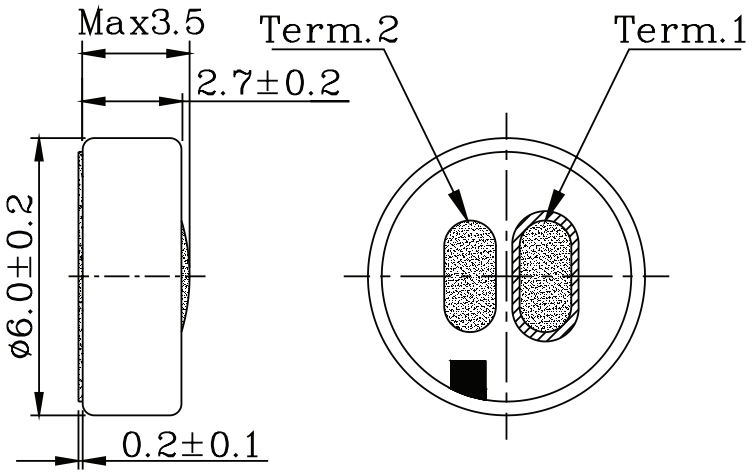
Notes: 1. We use the "Pascal (Pa)" indication of sensitivity as per the recomendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase 20 dB compared to the "ubar" indication. Example: -60 dB (0 dB = 1 V/ubar) = -40 dB ( 1V/Pa)
2. All specifications measured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

## SOLDERABILITY

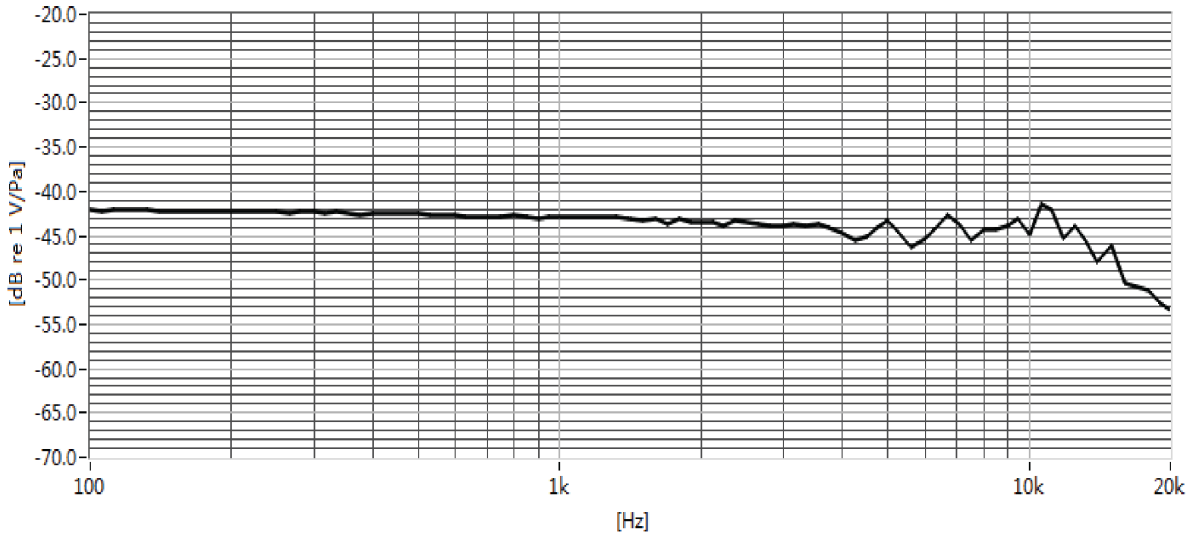
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| hand soldering | for maximum 2 seconds | 340 | 350 | 360 | °C |

## MECHANICAL DRAWING

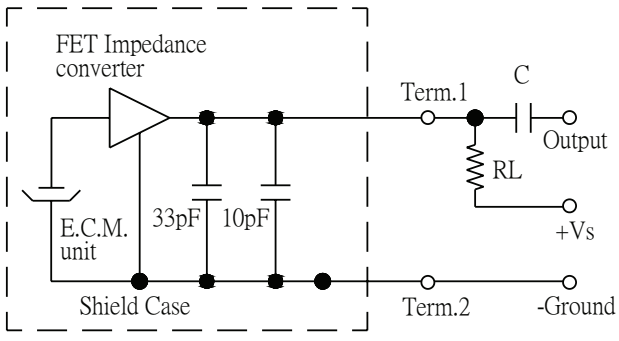
units: mm
tolerance: ±0.2 mm




## FREQUENCY RESPONSE CURVE




## MEASUREMENT CIRCUIT

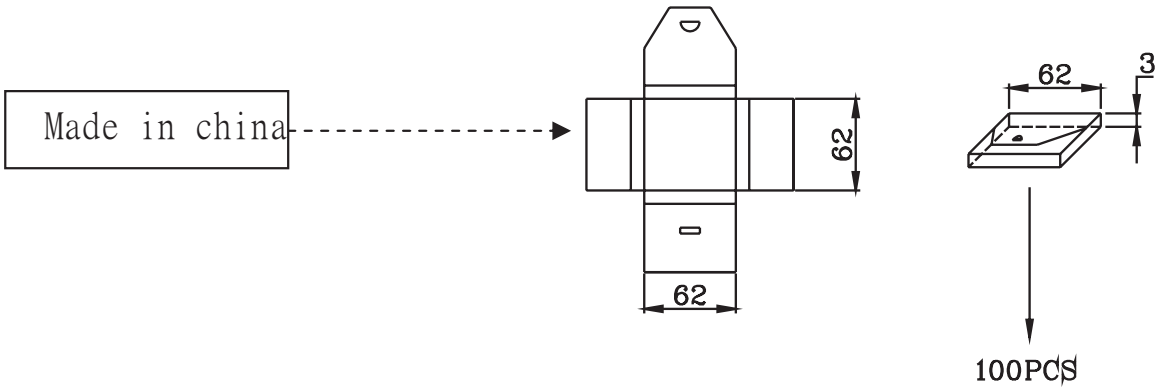


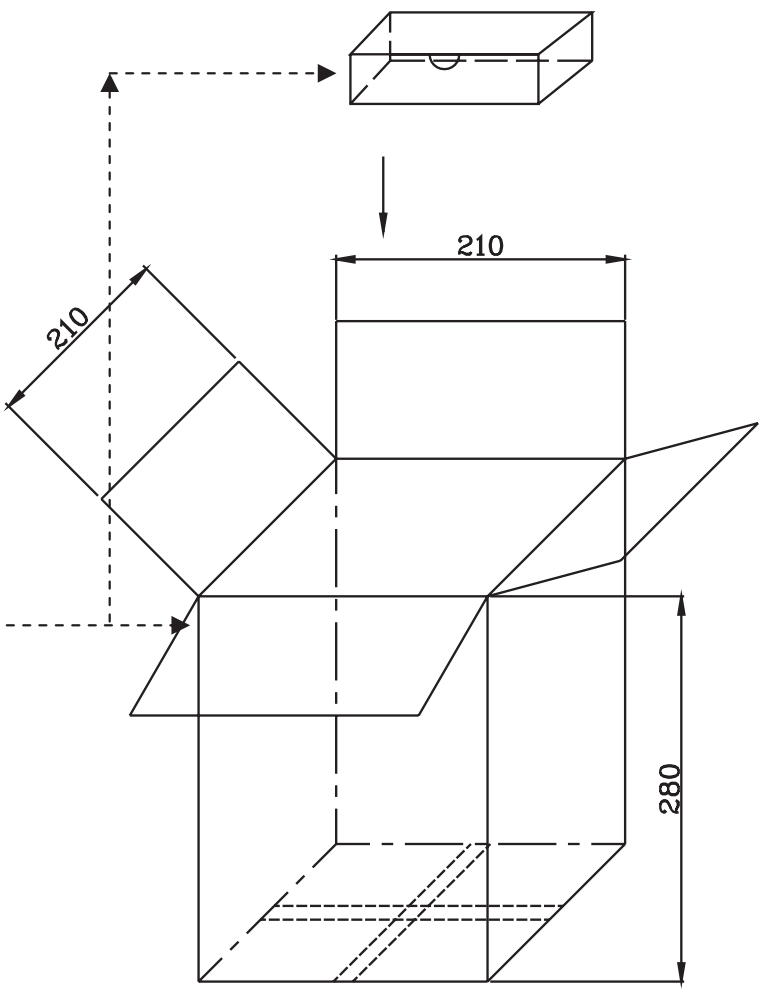

RL = 2.2 kΩ
C = 1 µF

## 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




| | |
|---|---|
| Lot No. | XXXXXXXXXX |
| Model No. | XXXXXXXXXX |
| Quantity. | XXXX Pcs |
| Date: DD MM YY<br>MADE IN CHINA | G |

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

## REVISION HISTORY

| rev. | description | date |
|---|---|---|
| 1.0 | initial release | 09/29/2017 |
| 1.01 | updated datasheet | 03/14/2019 |
| 1.02 | brand update | 01/15/2020 |
| 1.03 | logo, datasheet style update | 08/05/2022 |

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

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