CUI DEVICES

Please sign below.

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PART SPECIFICATION FOR APPROVAL

| CUSTOMER | Bionic System Solutions |
|-------------|-------------------------------|
| MODEL | CMC-6035T-C1 |
| DESCRIPTION | electret condenser microphone |
| DATE | 10/04/2021 |
| # OF PAGES | 5 |

| rev. | description | date |
|------|-----------------|------------|
| 1.0 | initial release | 10/04/2021 |

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

| approved by | | |
|-------------|----------------|--|
| - FF | (please print) | |
| signature | | |
| 5 | | |
| date | | |

Specification sign-off verifies that you have reviewed the entire specification and tested this product and that it meets your requirements. This specification reflects the part as it is to be ordered. Orders will not be processed until the specification approval page has been signed and returned to CUI Devices. This specification is confidential and is not to be distributed without prior approval from CUI Devices.

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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 (Δ S-Vs) | f = 1 kHz, 1 Pa, Vs = 2.0 ~ 1.5 Vdc | | -3 | | dB |
| frequency (f) | | 100 | | 20,000 | Hz |
| current consumption (IDSS) | Vs = 2.0 Vdc, RL = 2.2 kΩ | | | 0.5 | mA |
| max input S.P.L | at 1 kHz, THD<10% | | | 130 | dB SP |
| distortion | at 94 dB | | | 1 | % |
| signal to noise ratio (S/N) | f = 1 kHz, 1 Pa, A-weighted | | 70 | | dBA |
| dimension | Ø6.0 x 2.7 mm | | | | |
| weight | | | | 0.20 | g |
| material | AL | | | | |
| terminal | solder pins | | | | |
| operating temperature | | -20 | | 70 | °C |
| storage temperature | | -20 | | 70 | °C |
| RoHS | yes | | | | |
| IP level | IP67 (IEC standard 529 edition 2.0 (1989)) | | | | |

2. All specifications measured at $5\sim35^{\circ}$ C, humidity at $45\sim85\%$, under $86\sim106$ kPa pressure, unless otherwise noted.

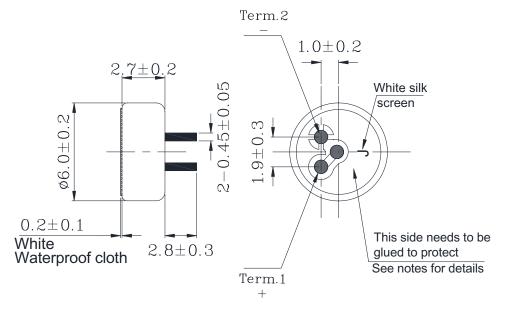
SOLDERABILITY

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

MECHANICAL DRAWING

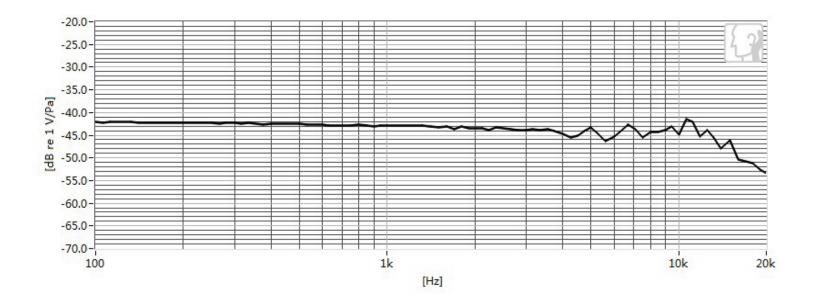
units: mm tolerance: ±0.25 mm

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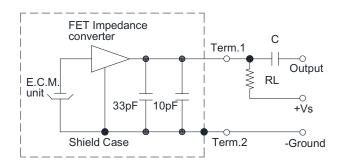
- Glue protection instructions for the back of the microphone: Prevent water short circuit of microphone +/- pole resulting in electrical anomalies and more reliable protection of PCB and microphone metal shell junction.
 Protection of the microphone body: After the customer's microphone is welded, the PCB surface needs to be dotted with glue to seal the insulation and ensure water Notes:
 - proof.
 - 5. Mechanism protection: Customers can also glue the microphone cavity in the mechanism shell to prevent the microphone surface from water.

FREQUENCY RESPONSE CURVE



MEASUREMENT CIRCUIT

 $RL = 2.2 k\Omega$



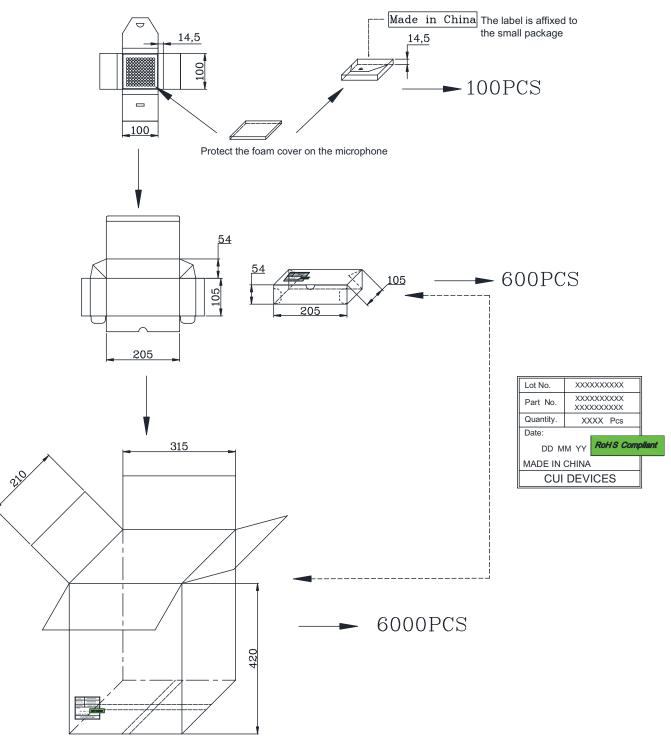
Schematic Diagram

PACKAGING

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units: mm

Inner Box Size: 100 x 100 x 14.5 mm Carton Size: 420 x 315 x 210 mm Inner Box QTY: 100 pcs per box Carton QTY: 6,000 pcs per carton



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CUI DEVICES

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

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CUI Devices: CMC-6035T-C1