


**MODEL:** CMC-97452-L100 | **DESCRIPTION:** ELECTRET CONDENSER MICROPHONE

**FEATURES**

- unidirectional
- high signal to noise ratio
- 100 mm lead wires


**SPECIFICATIONS**

| parameter                       | conditions/description              | min | typ | max    | units |
|---------------------------------|-------------------------------------|-----|-----|--------|-------|
| directivity                     | unidirectional                      |     |     |        |       |
| sensitivity (S)                 | f = 1 kHz, 1 Pa, 0 dB = 1 V/Pa      | -40 | -37 | -34    | dB    |
| standard operating voltage (Vs) |                                     |     | 1.5 |        | Vdc   |
| max operating voltage           |                                     |     |     | 9      | Vdc   |
| output impedance (Zout)         | f = 1 kHz, 1 Pa                     |     | 2.2 |        | kΩ    |
| sensitivity reduction (ΔS-Vs)   | f = 1 kHz, 1 Pa, Vs = 1.5 ~ 1.0 Vdc |     | -3  |        | dB    |
| frequency (f)                   |                                     | 100 |     | 12,000 | Hz    |
| current consumption (IDSS)      | Vs = 1.5 Vdc, RL = 2.0 kΩ           |     |     | 0.4    | mA    |
| signal to noise ratio (S/N)     | f = 1 kHz, 1 Pa, A-weighted         |     | 69  |        | dBA   |
| dimensions                      | Ø9.7 x 4.5                          |     |     |        | mm    |
| material                        | Al                                  |     |     |        |       |
| terminal                        | wire leads                          |     |     |        |       |
| weight                          |                                     |     |     | 1.0    | 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 (1 V/Pa)  
 2. All specifications measured at 5~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

**SOLDERABILITY**

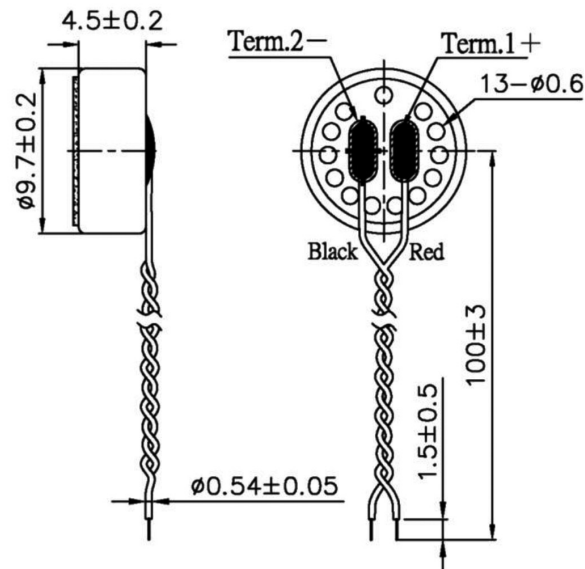
| parameter      | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| hand soldering | for maximum 2 seconds  | 310 | 320 | 330 | °C    |

## MECHANICAL DRAWING

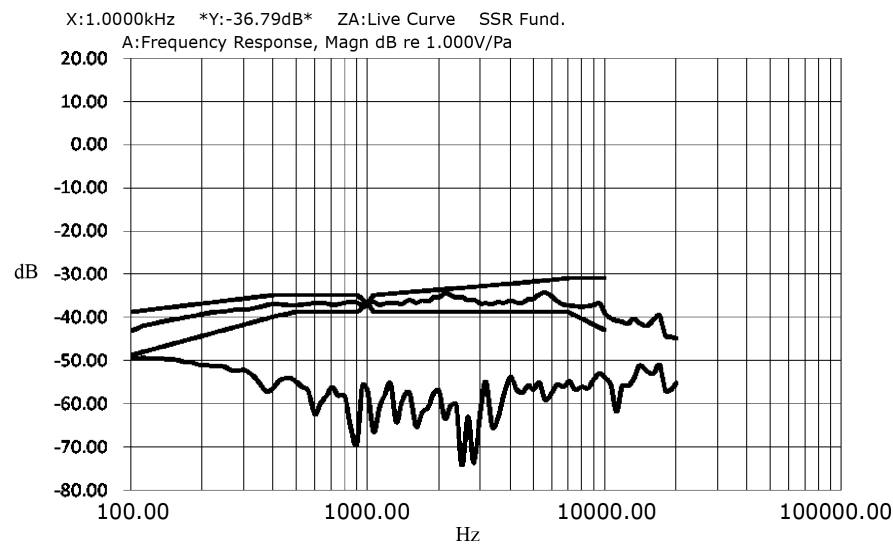
units: mm

tolerance:  $\pm 0.2$  mm

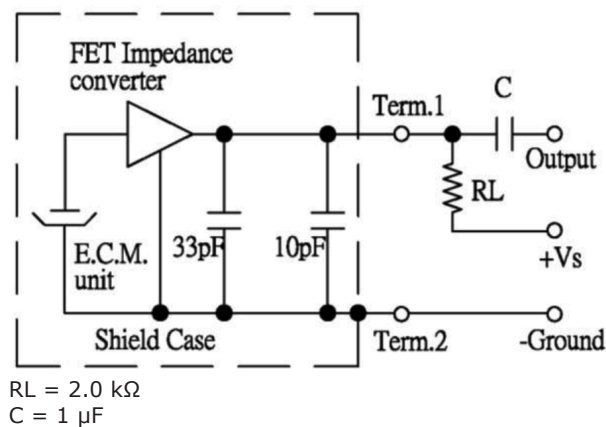
wire: UL1571 LF 32 AWG



## FREQUENCY RESPONSE CURVE



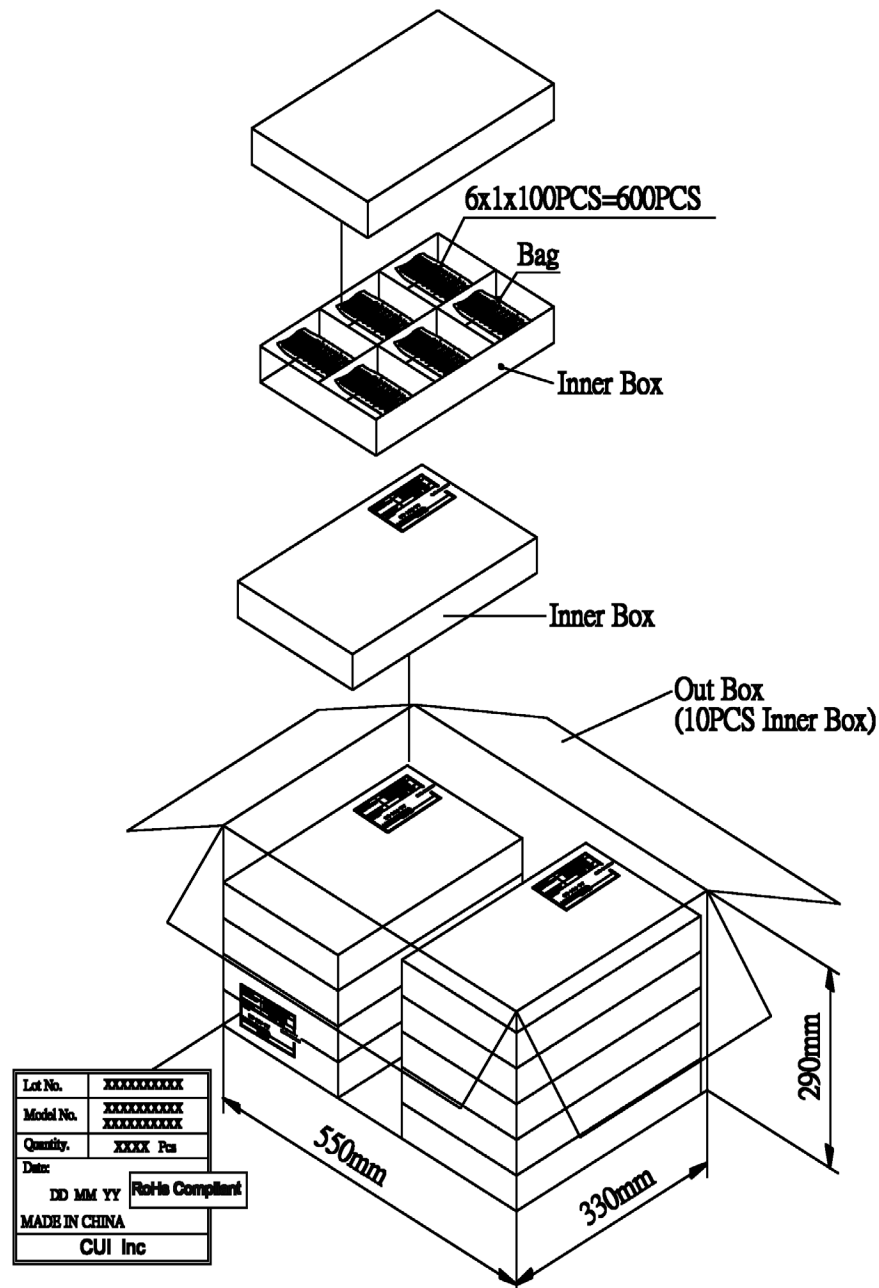
## MEASUREMENT CIRCUIT



## PACKAGING

units: mm

Inner Box Size: 310 x 248 x 49 mm  
Outer Box Size: 550 x 330 x 290 mm  
Inner Box QTY: 600 pcs per box  
Outer Box QTY: 6,000 pcs per box



## REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 11/28/2016 |

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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