

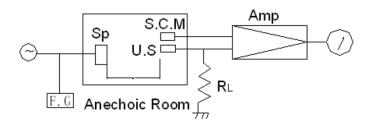
Data Sheet SMUTR-1040K-TT

Specifications

| Parameters | Values | Units |
|---------------------------|------------------|-------|
| Maximum Input Voltage | 30 | Vrms |
| Capacitance @ 1kHz | 10,000 ± 25% | pF |
| Nominal Frequency | 40 ± 0.7 | kHz |
| Directivity | 80 ± 40 | 0 |
| Transmitting Sensitivity | 115 ± 3 | dBA |
| Receiving Sensitivity | -65 ± 3 | dBA |
| Detectable Range | 0.2 - 1.5 | M |
| Housing Material | LCP Plastic | - |
| Terminal Material | Tin Plated Brass | - |
| Environmental Compliances | ROHS/REACH | - |
| Operating Temperature | -30 ~ +80 | °C |
| Storage Temperature | -40 ~ +85 | °C |

Measurement Method (Temperature: 25 ± 2 °C; Humidity: 45-65%)

Receiver



RL: $3.9K\Omega$

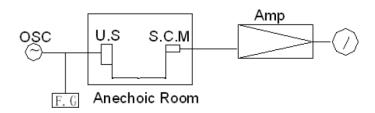
U.S: Ultrasonic Sensor

S.C.M:Standard Cappacitor Microphone

Amp. :Ampifier OSC. :Oscillator Sp :Tweeter

F.C: Frequency Counter

Transmitter

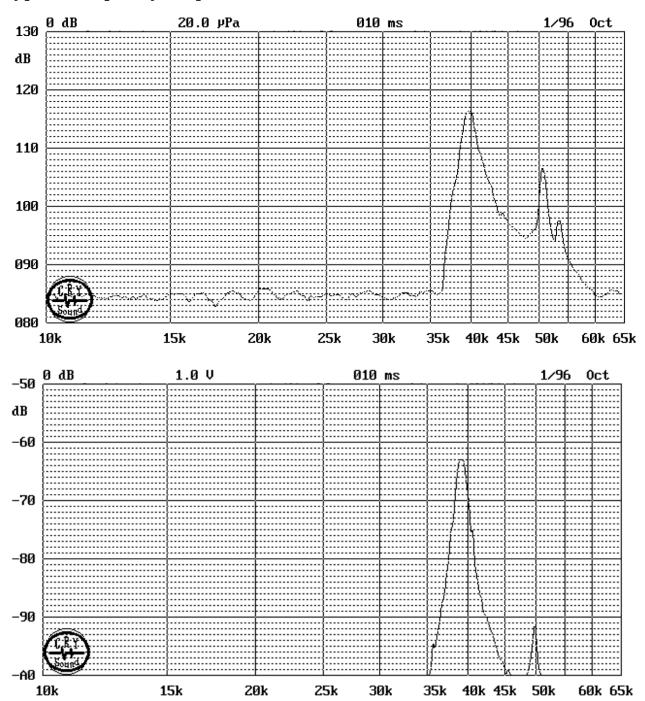


U.S: Ultrasonic Sensor

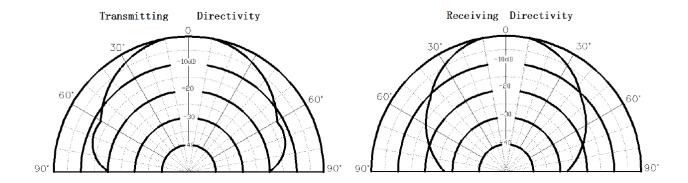
S.C.M:Standard Cappacitor Microphone

Amp. :Ampifier Input voltage:10Vrms F.C :Frequency Counter ©2021, PUI Audio Inc.

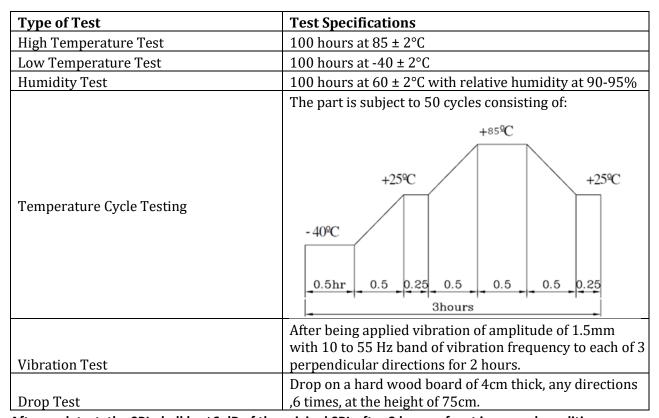
Typical Frequency Response



Directivity

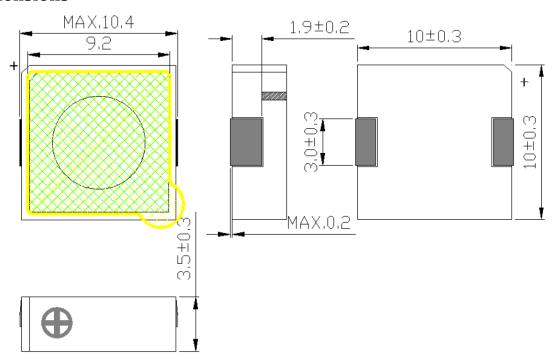


Reliability Testing

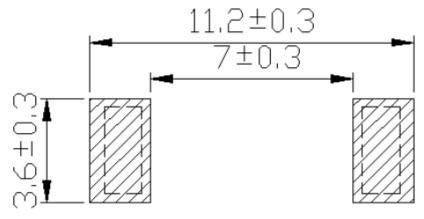


After each test, the SPL shall be ±6 dB of the original SPL after 2 hours of rest in normal conditions

Dimensions

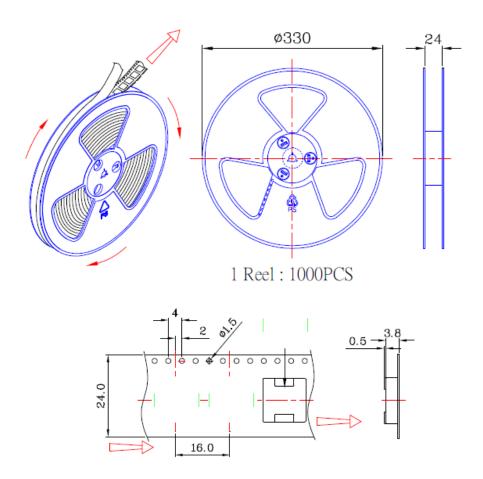


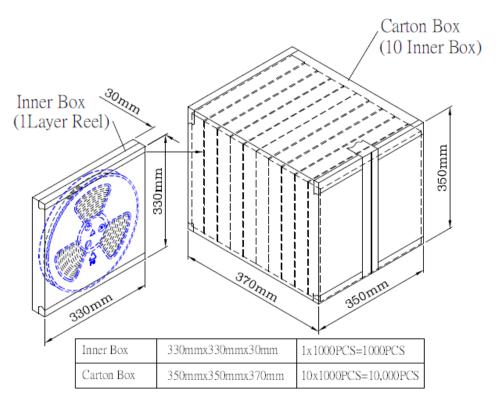
Suggested Land Pattern*



*This land pattern is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

Packaging





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Specifications Revisions

| Revision | Description | Date |
|----------|---|------------|
| Α | Released from Engineering | 9/30/2022 |
| В | Revised Sensitivity, Capacitance, and Temperature | 10/24/2022 |

Note:

- Unless otherwise specified:

 - A. All dimensions are in millimeters.
 B. Default tolerances are ±0.5mm and angles are ±3°.
- 2. Specifications subject to change or withdrawal without notice.