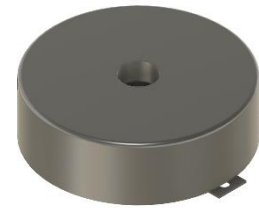




PUIaudio



Data Sheet

AT-1052-T

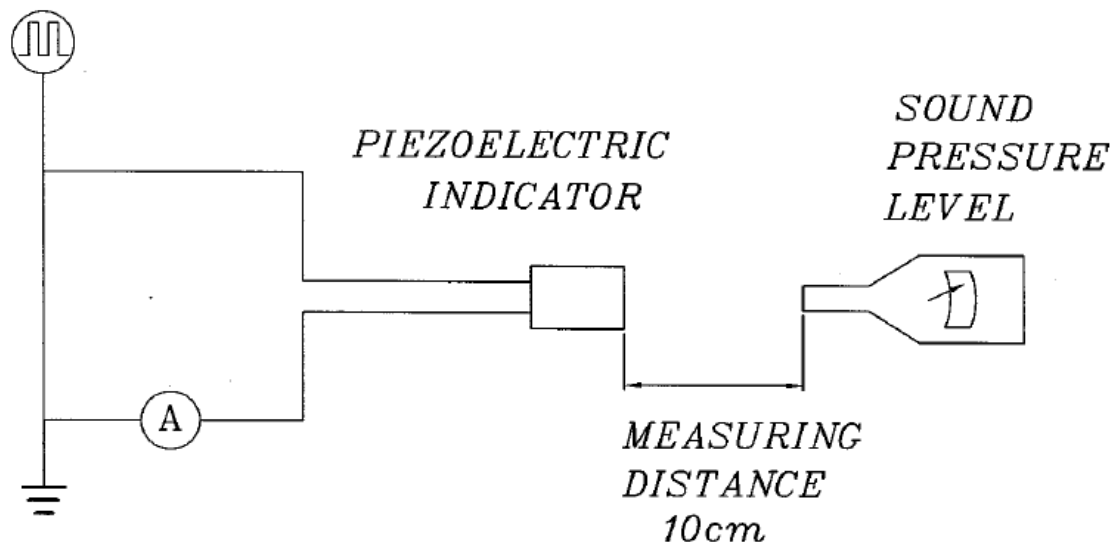
Features:

- Small profile transducer for
- High SPL for small size
- 5.2kHz resonant frequency

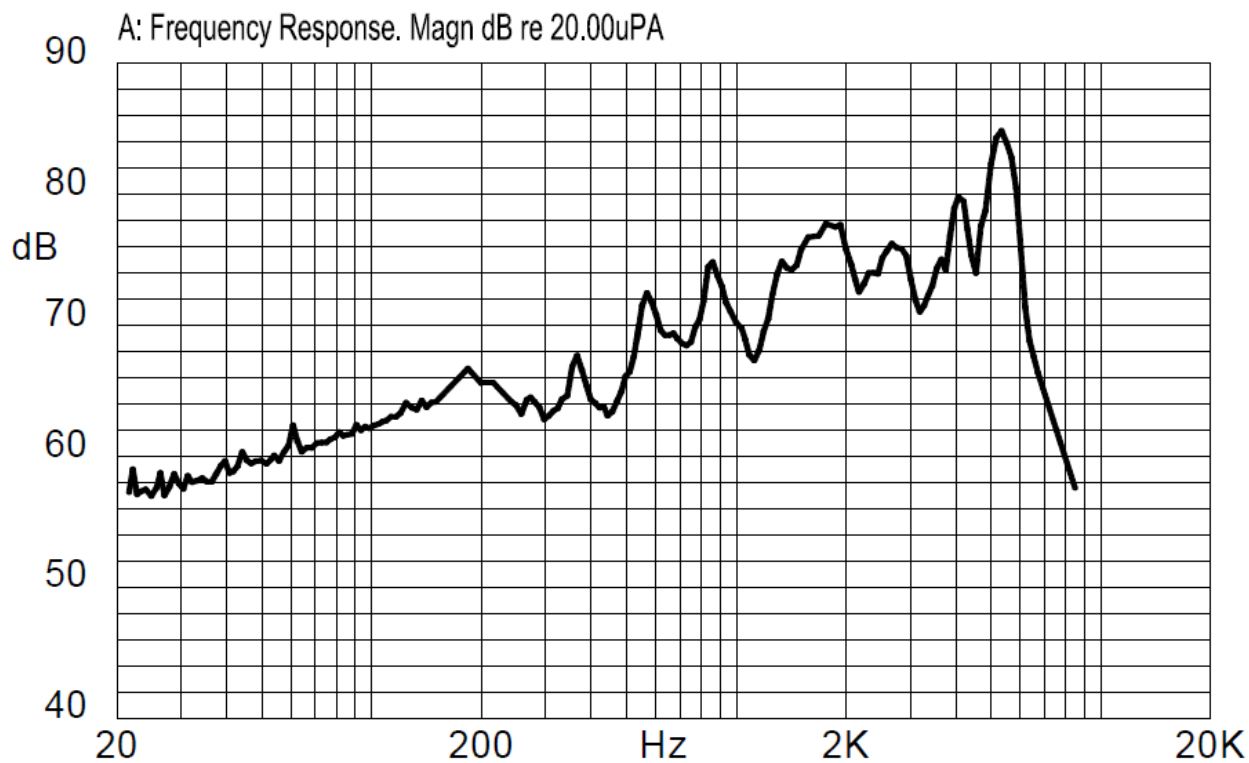
Specifications

Parameters	Values	Units
Rated Voltage	5	Vp-p
Operating Voltage Range	5~25	Vp-p
Current Draw at Rated Voltage	5	mA
Capacitance	11,000 $\pm$ 30%	pF
Minimum SPL @ 10cm	75	dBA
Resonant Frequency	5,200 $\pm$ 500	Hz
Housing Material	LCP (Black)	-
Terminal Material	AU Plating	-
Weight	0.3	Grams
Acceptable Soldering Methods	Reflow Solder	See page 3 for soldering information
Environmental Compliances	RoHS/REACH	Ex. 7c-1
Moisture Sensitivity Level	5	-
Storage Temperature	-30 ~ 80	°C
Operating Temperature	-20 ~ 70	°C

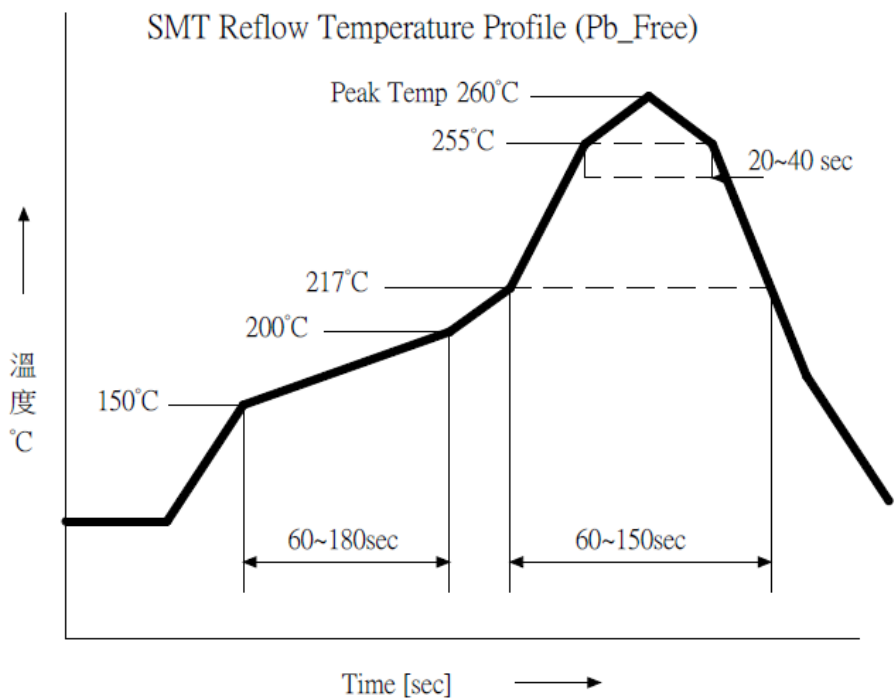
Measurement Method (5Vpp, 5.2kHz)



Typical Frequency Response (5Vpp, 5.2kHz)



Recommended Soldering Procedure

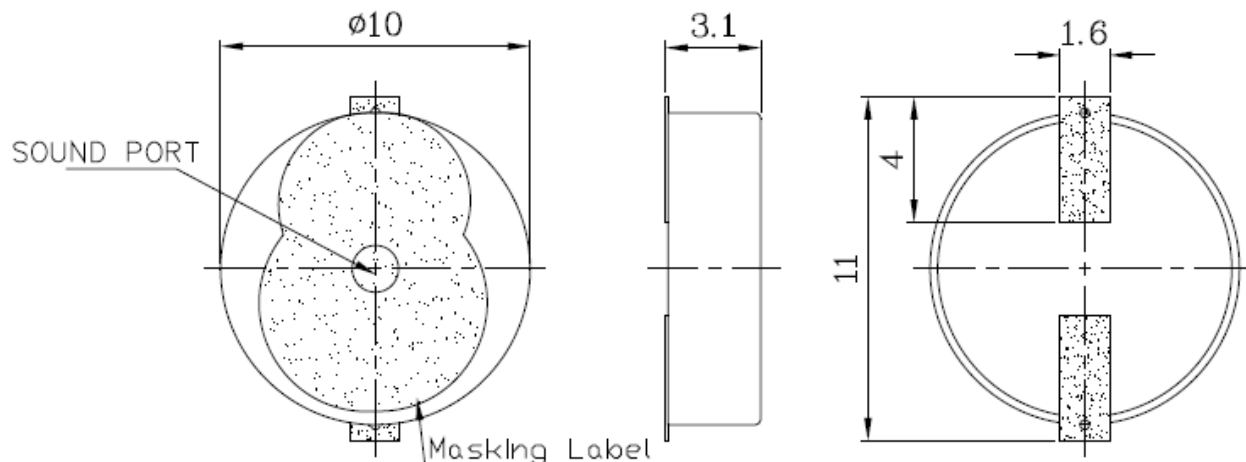


Reliability Testing

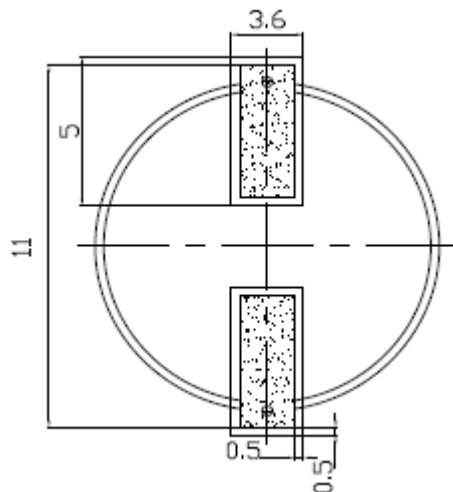
Type of Test	Test Specifications
High Temperature Test	96 hours at 80°C
Low Temperature Test	96 hours at -30°C
Humidity Test	96 hours at 40°C with relative humidity at 90%
Temperature Cycle Testing	Run for 5 cycles with each cycle consisting of: Temperature Cycle Testing Profile: -20°C (0.5hr) - Ramp to +25°C (0.5) +25°C (0.25) - Ramp to +70°C (0.5) +70°C (0.5) - Ramp to +25°C (0.5) +25°C (0.25) - Total cycle time: 3hours
Vibration Test	Frequency: 10Hz to 55Hz; Amplitude: 1.55mm 2 hours in each of the X,Y, and Z axes

After each test, let the part rest for 4 hours, then the change in SPL shall be within ±10dB

Dimensions



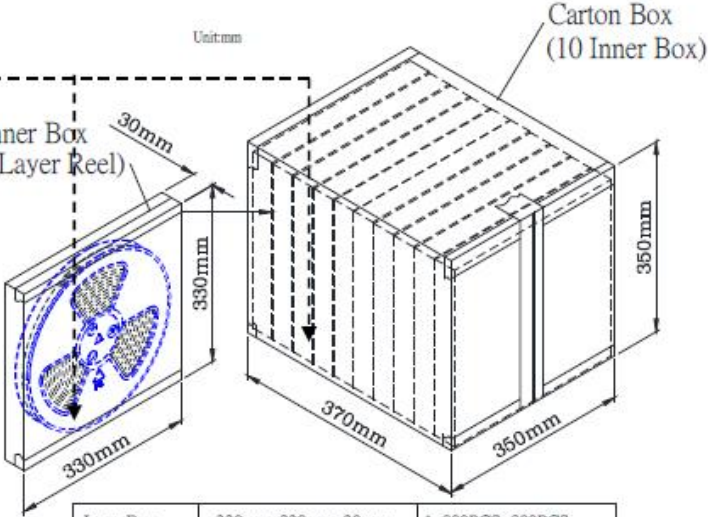
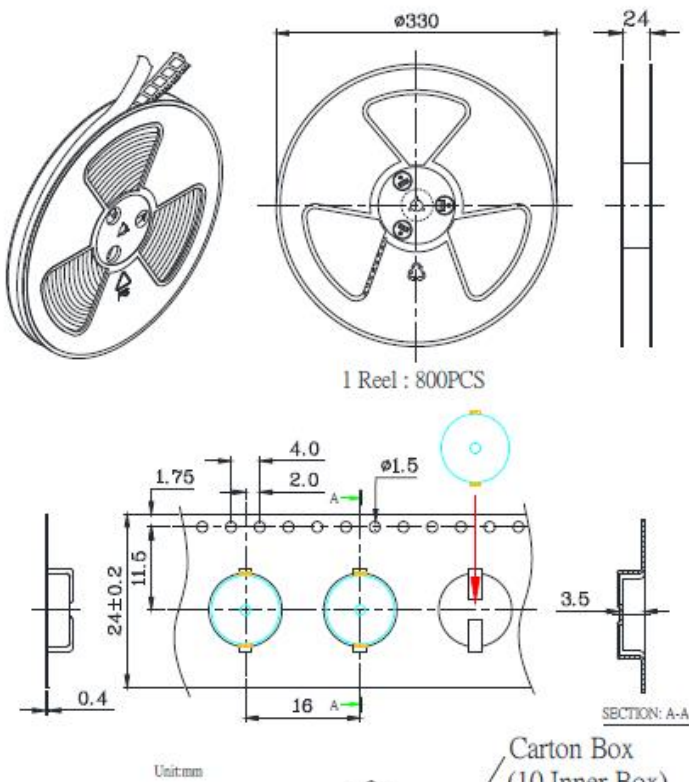
Suggested Land Pattern*



*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

Lot No.	XXXXXXXXXX
Part No.	XXXXXXXXXX
Quantity	XXXX Pcs
Date:	
WWYY	HSF



Inner Box	330mmx330mmx30mm	1x800PCS=800PCS
Carton Box	350mmx350mmx370mm	10x800PCS=8,000PCS

Caution
The following
MOISTURE SENSITIVE DEVICES

1. Controlled shelf life is based on 12 months at +40°C and
relative humidity 90%.

2. Peak package body temperature: **85** °C

3. After long is opened, devices that will be subjected to reflux
solder or other high temperature process must be:
a) Reheated within **48** hours of factory calibration
satisfactory RFL or
b) Reheat per J-STD-003

4. Devices exposed to moisture during assembly:
a) Humidity Indicator Card reads <10% for level 2a - Re-
examine in 48hrs for level 2 devices when read at 20 ± 2°C
b) Do not use the unit

5. If testing is required, refer to PUI-00200-0070-003 for
test procedures

Reel Test Date: _____

Reel Test and Bake Information (Reference PUI-00200-0070-003)			
DATE	PCS	QTY	INITIAL

HUMIDITY INDICATOR
Cobalt-Free

**Bake Units
if Blue**  15%

**Bake Units
if Blue**  10%

**Change
Desiccant
if Blue**  5%

Discard if Circles Overrun
Avoid Metal Contact

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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[205311](#) [HNR-1704A](#) [KC1206 16](#) [FUET-1760](#) [FUET-1030H](#) [CPT-1117-83-SMT-TR](#) [CMA-6542PF](#) [CEM-1212S](#) [CMT-4023S-SMT-TR](#)
[CMT-8504-100-SMT-TR](#) [CX-0905C](#) [FMB09A12-12V](#) [FSD-5037](#) [FUET-1365F-05](#) [FSD-3020-12V](#) [SEA-0955Y-0527-16-50P4.0](#) [KC1206R](#)
[42](#) [FSD-2316-24V](#) [LEB1370BS-1.5S-2.4-R](#) [LEB1310BS-05S-2.4-R](#)