



PUIaudio



Data Sheet	AI-1223-TWT-5V-7
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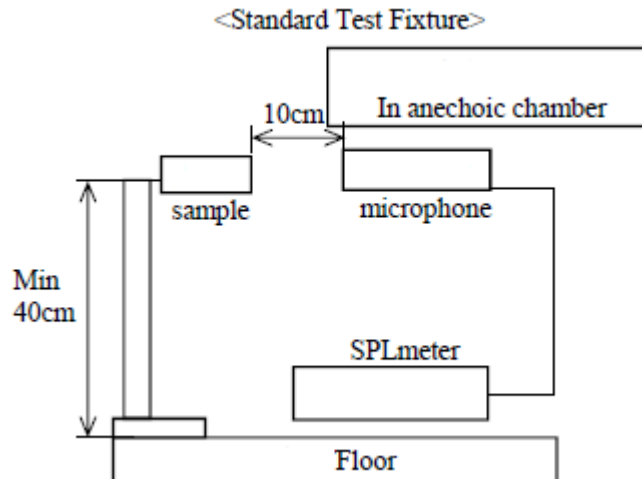
Features:

- 5 VDC rated voltage
- 90 dB sound output at 10 cm
- Wide operating temperature range up to 85°C and as low as -40°C

Specifications

Parameters	Values	Units
Rated Voltage	5	VDC
Operating Voltage Range	4 ~ 6.5	VDC
Current Draw at Rated Voltage	30	mA
Minimum SPL @ 10cm	90 ± 5	dBA
Resonant Frequency	2300 ± 300	Hz
Tone or Pulse Rate	Continuous	-
Weight	2	Grams
Terminal Material	Sn Plated Copper Wire	-
Acceptable Soldering Methods	Hand Solder	-
Environmental Compliances	<i>RoHS/REACH</i>	-
Storage Temperature	-40 ~ 105	°C
Operating Temperature	-40 ~ 85	°C

Measurement Method (5Vdc/10cm)

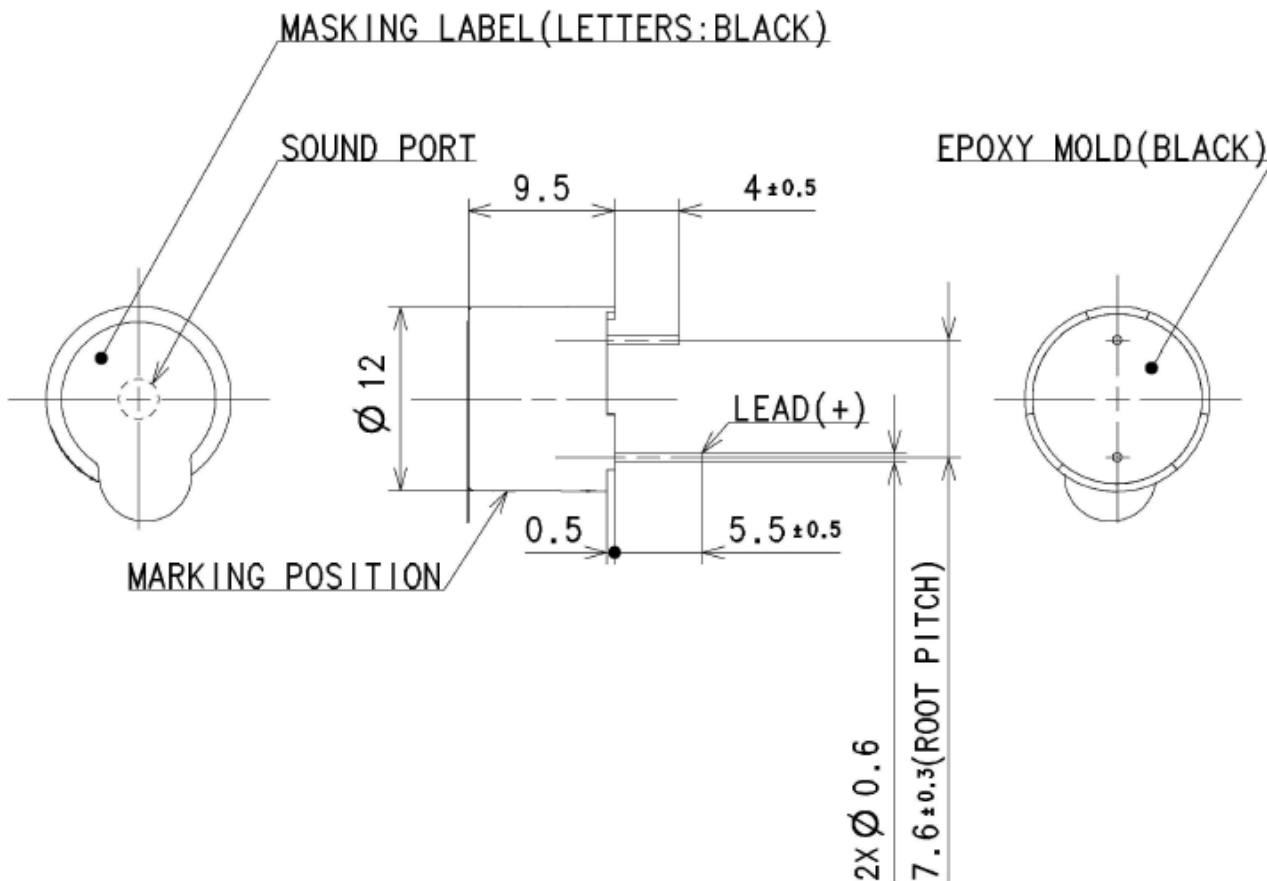


Reliability Testing

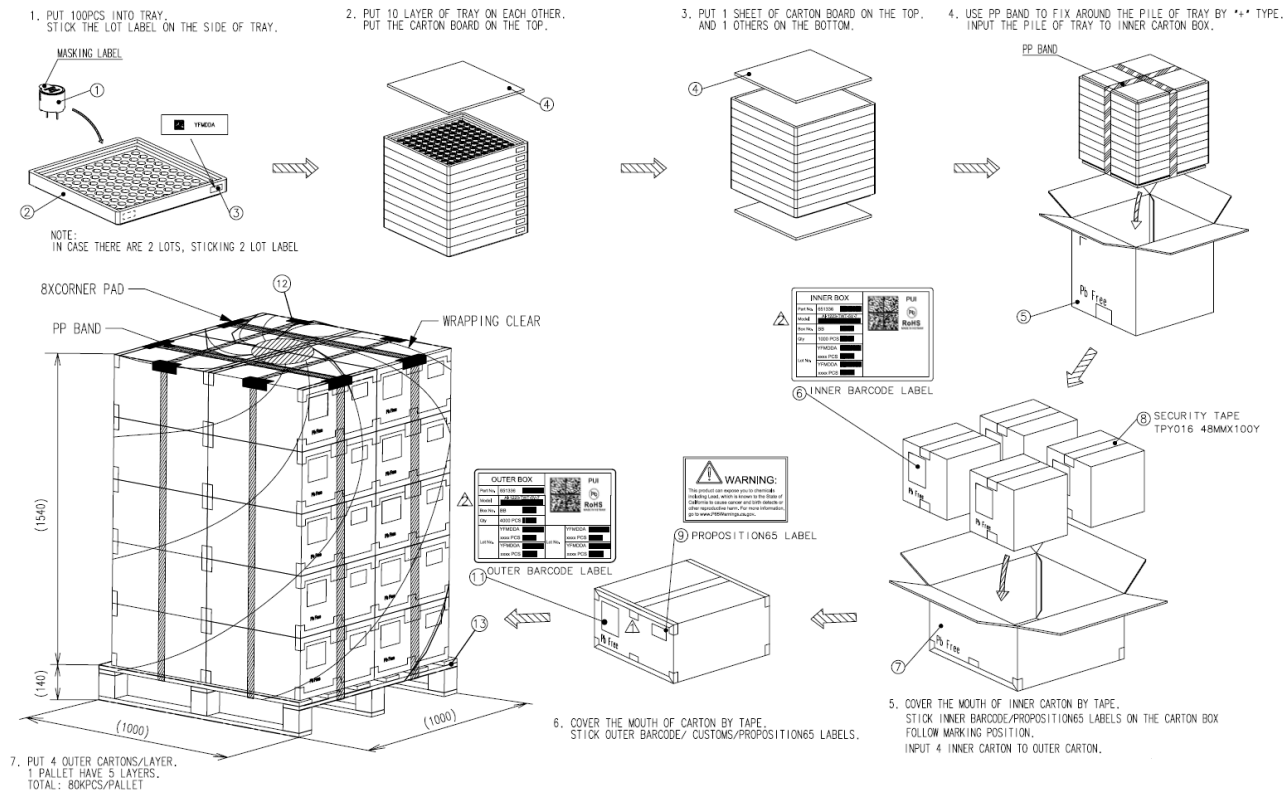
Type of Test	Test Specifications
High Temperature Test	96 hours at 105°C
Low Temperature Test	96 hours at -40°C
Temperature Cycle Testing	<p>25°C, 90-95%RH 65°C, 90-95%RH 5 hrs. a 6 hrs. b 12 hrs. (1 cycle) a, b = 0.5 hrs. 10 cycles</p>
Vibration Test	10-55-10 Hz Sine wave, Sweep 1 min., Amplitude 1.52 mm, Max 91 m/s ² , 3 directions (X, Y, Z), 2 hrs each, total 6 hrs
Drop Test	Free fall on wooden board (t = 40mm), height 70 cm, 3 directions (X, Y, Z), 1 time each, total 3 times.
Load Test	Continuous rumbling for 1000 hrs at 5 VDC

After each test, the SPL shall be 80 dB or higher at 2300 ± 300 hz.

Dimensions



Packaging



Specifications Revisions

Revision	Description	Date
A	Released from Engineering	9/14/2023
B	Revised Temperature and Terminal Material	10/10/2023

Note:

1. Unless otherwise specified:
 - A. All dimensions are in millimeters.
 - B. Default tolerances are $\pm 0.5\text{mm}$ and angles are $\pm 3^\circ$.
2. Specifications subject to change or withdrawal without notice.