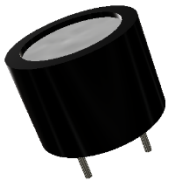
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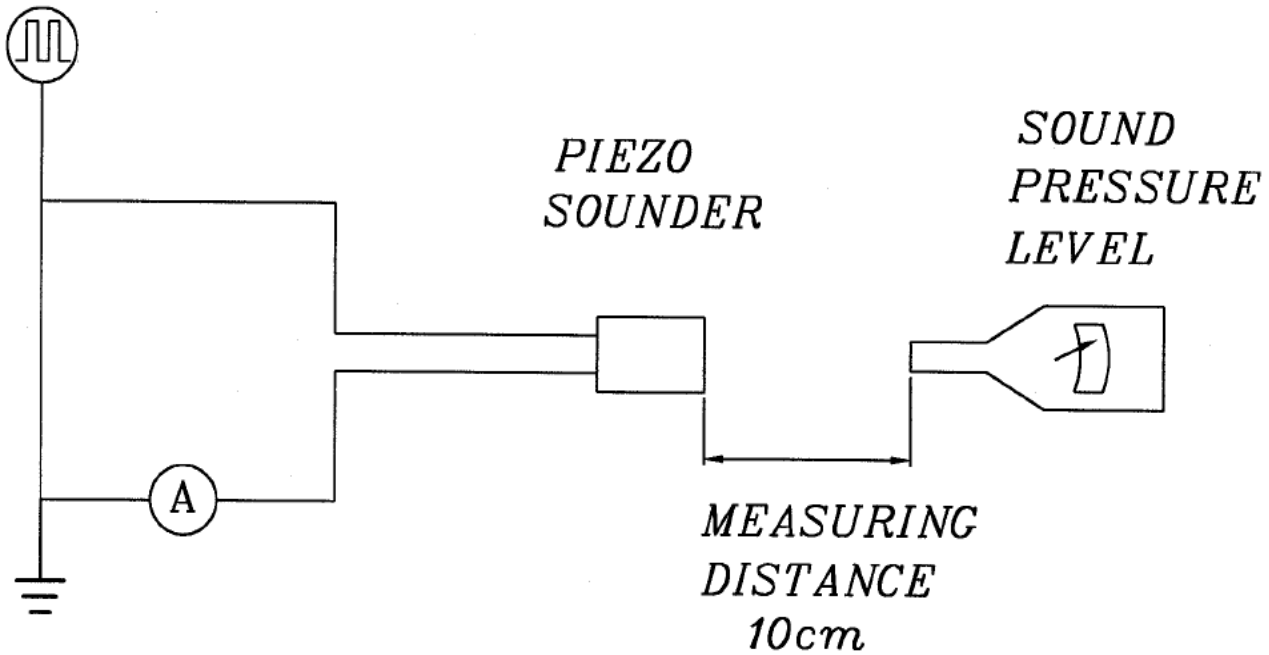


Data Sheet	AT-1442-TT-WP-R

Specifications

Parameters	Values	Units
Rated Voltage	10	Vp-p
Operating Voltage Range	30	Vp-p
Current Draw at Rated Voltage	12	mA
Capacitance 1kHz/1V	20,000±30%	pF
Minimum SPL @ 10cm	84	dBA
Resonant Frequency	4250±500	Hz
Housing Material	ABS	-
Terminal Material	Au plating	-
Weight	2.6	Grams
Ingress Protection Rating	IP67	-
Acceptable Soldering Methods	Hand Solder	Iron 360C for 3 seconds or less
Environmental Compliances	ROHS	
Storage Temperature	-40~95	°C
Operating Temperature	-30~85	°C

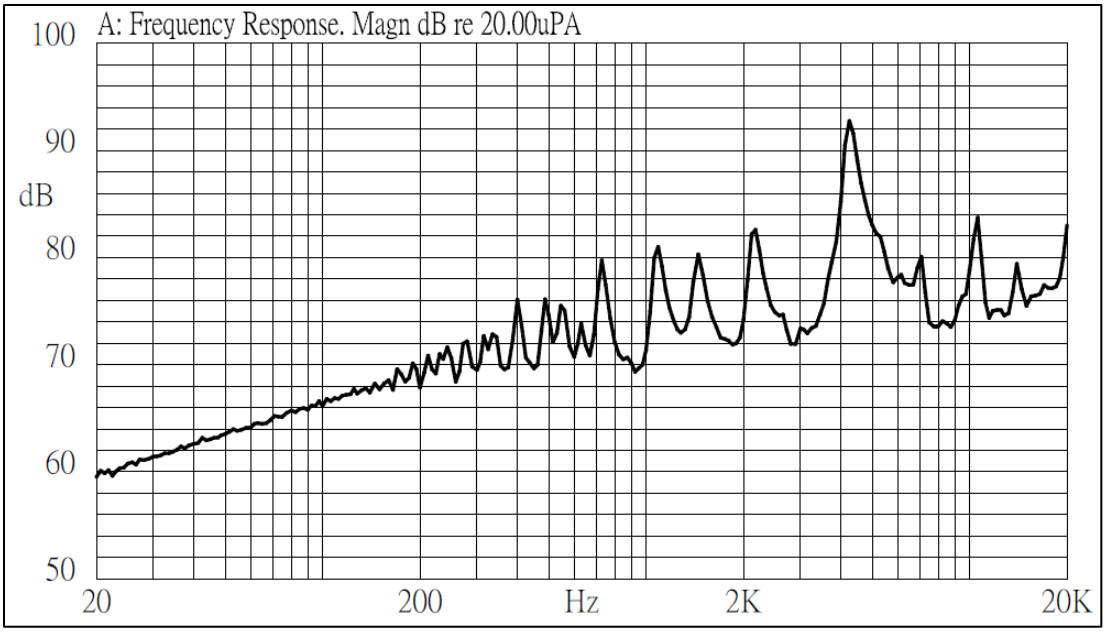
Measurement Method (Tested with 10Vpp @ 4.25kHz)



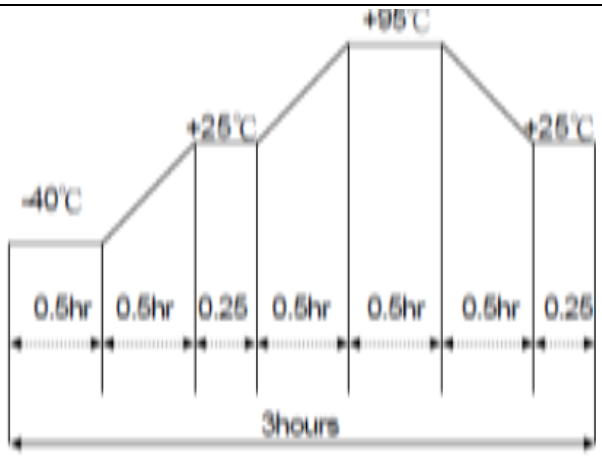
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Typical Frequency Response (Tested with 10Vpp @ 4.25kHz)



Reliability Testing

Type of Test	Test Specifications
High Temperature Test	After being inside chamber for 240 hours at 95°C
Low Temperature Test	After being inside chamber for 240 hours at -40°C
Humidity Test	After being inside chamber 240 hours at 40°C with relative humidity at 90%
Temperature Cycle Testing	
Vibration Test	Applied amplitude of 1.5mm with 10Hz to 55Hz frequency in XYZ axis for 2 hours.
Drop Test	Drop from 75cm onto 40mm thick plywood 3 times in XYZ axis 3 times, 9 total.

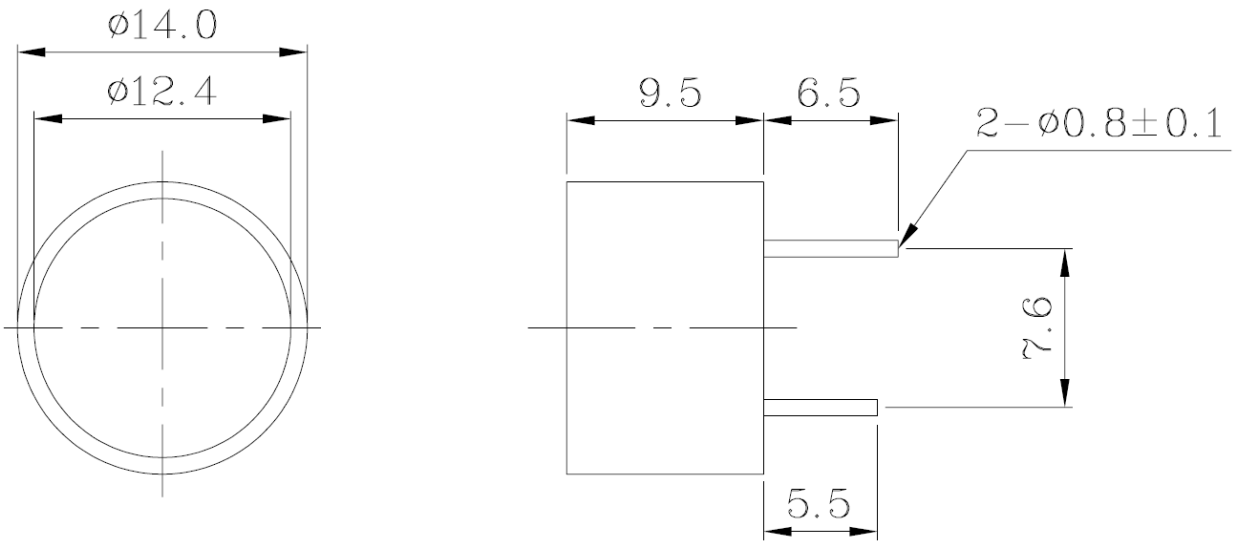
Evaluation:

Allow buzzer to sit for 4 hours at 25C. Test results should be within ±10% of initial measurements for frequency oscillation. The SPL within ±10dB of initial measurement.

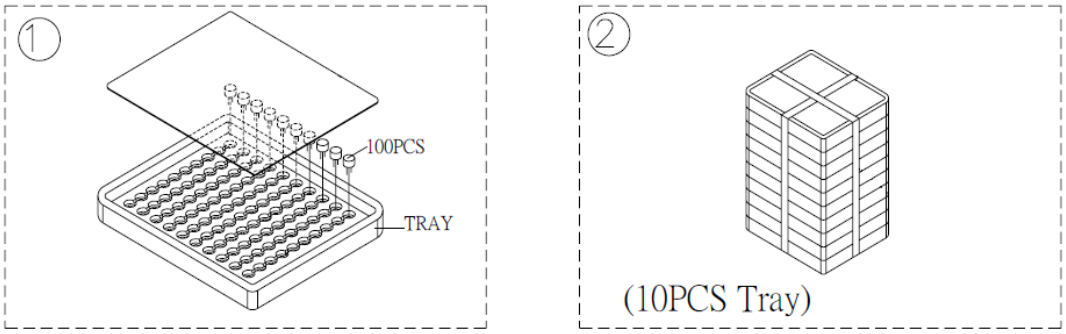
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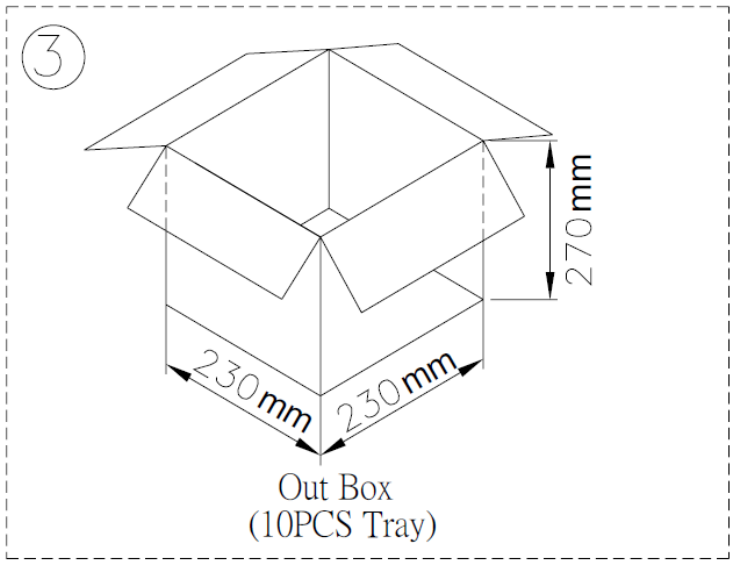
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Dimensions



Packaging





Tray		1x100PCS=100PCS
Out Box	230mmx230mmx270mm	10LAYERx100PCS=1000PCS

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Specifications Revisions

Revision	Description	Date
-	Released from Engineering	11/8/2019
A	Revised Dimensions	2/27/2020

Note:

1. 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.

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