Data Sheet	AR01032MR-2-R

Specifications

Parameters	Values	Units
Rated Input Power	10	mWatts
Max Input Power	20	mWatts
Impedance	32 ± 15%	Ohms
Sensitivity (SPL @ 1kHz) 179mV in Type 3.2 HL Ear	110 ± 3	dB Pa/V
Resonant Frequency (179mV in free air)	400 ± 20%	Hz
Frequency Range	300 ~ 3,400	Hz
Frame Material	Spcc	-
Magnet Material	NdFeB	-
Diaphragm Material	Mylar	-
Weight	0.5	Grams
Environmental Compliances	ROHS/REACH	-
Buzz, Rattle, etc.	Should not be audible with 179 mV sine wave from 300 Hz to 3.4 kHz	-
Polarity	When positive voltage is applied to the positive terminal, the diaphragm will move outward	-
Operating Temperature	-30 ~ +70	°C
Storage Temperature	-40 ~ +85	°C

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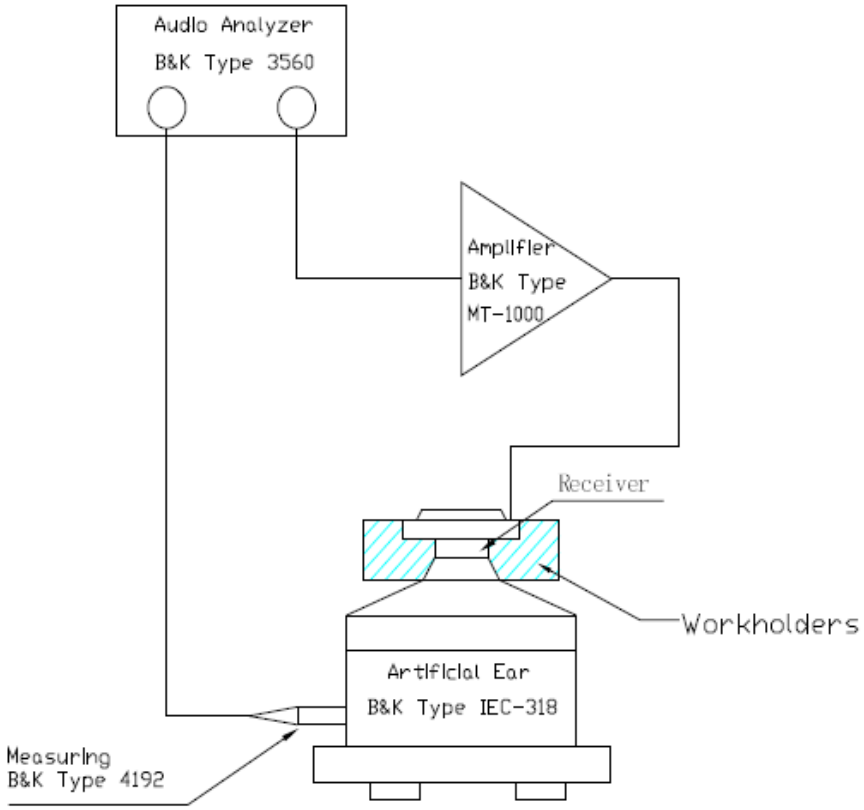
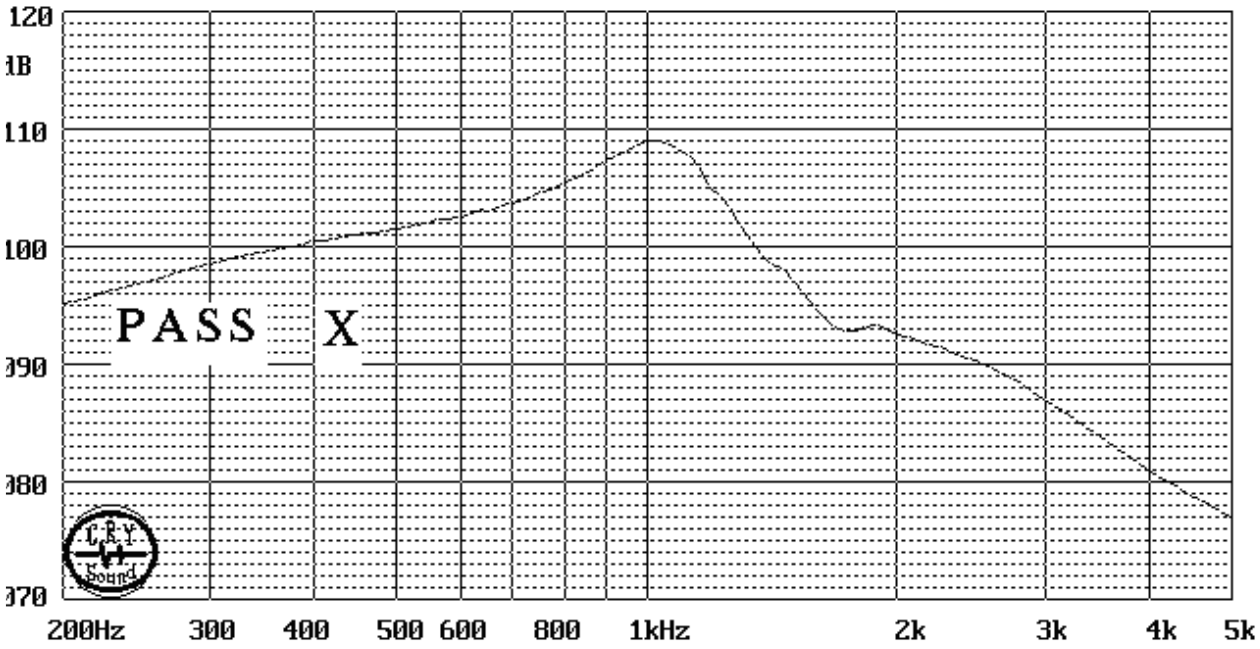
Measurement Method (measured with 179mV, Temperature: 15 ~ 35°C, Relative Humidity: 25%~75%)



Frequency Response (measured at 179)



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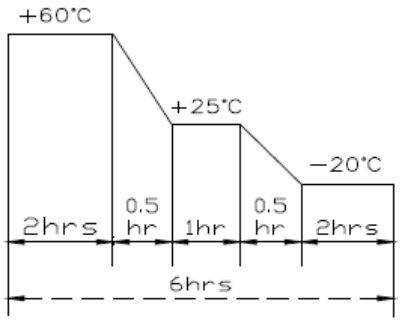
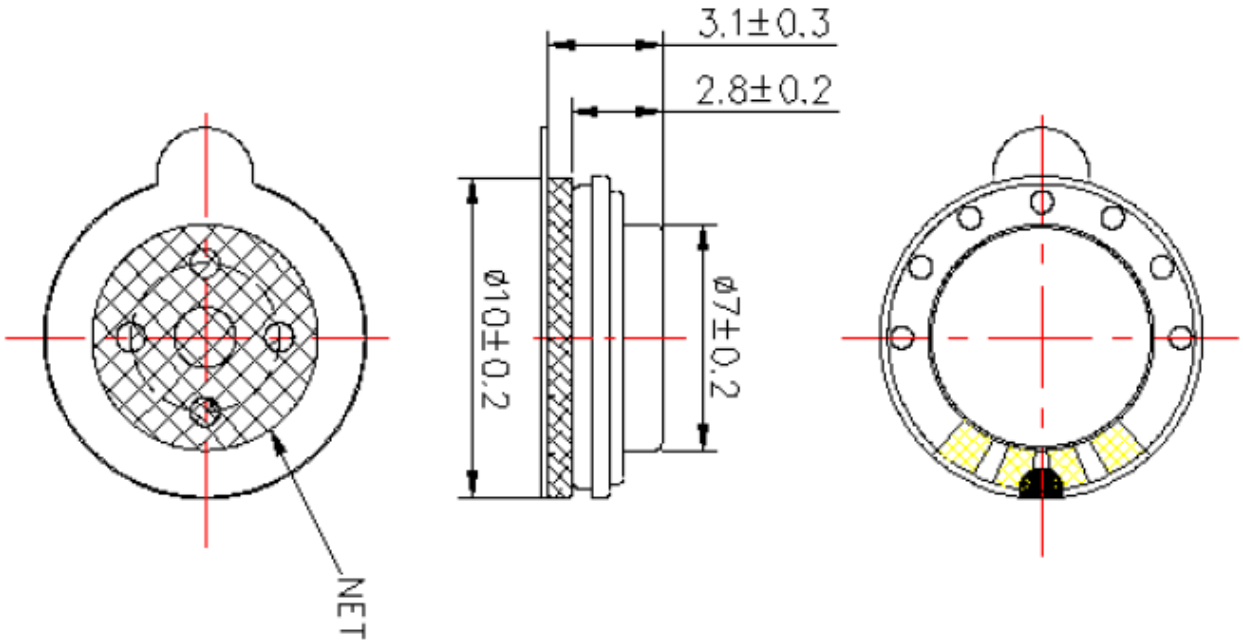
Reliability Testing

Type of Test	Test Specifications
High Temperature Test	96 hours at +85°C ± 2°C
Low Temperature Test	96 hours at -40°C ± 3°C
Humidity Test	48 hours at +40°C ± 2°C with relative humidity at 90-95% relative humidity
Temperature Cycle Testing	The part shall be subjected to 4 cycles. One cycle shall be 6 hours and consist of 
Vibration Test	Frequency 30 ± 15 Hz, Amplitude 1.5 mm for 3 hours
Drop Test	75 cm free fall on concrete floor, 10 times
Load Test and Max Power Test	White noise is applied at the speakers rated power for 96 hours at room temperature

After each test, the speaker's SPL shall be ±3 dB of the original SPL after 6 hours of recovery.

Dimensions



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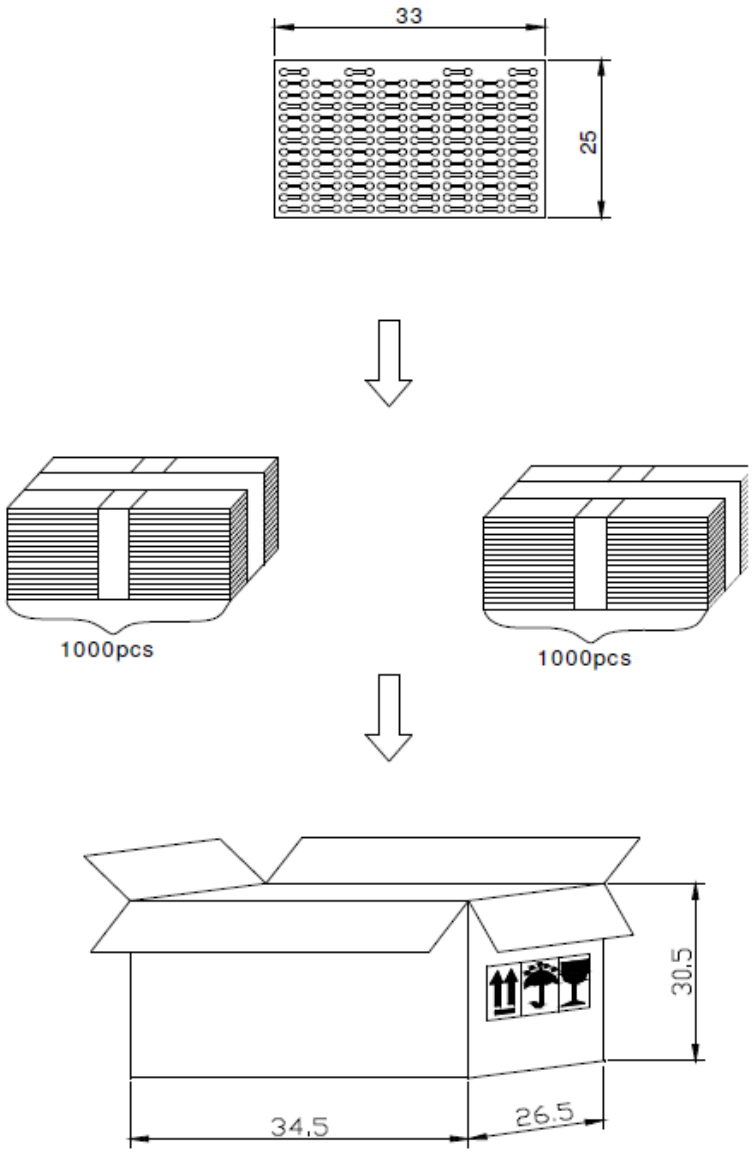
Packaging



Specifications Revisions

Revision	Description	Date
A	Released from Engineering	7/22/2015

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.