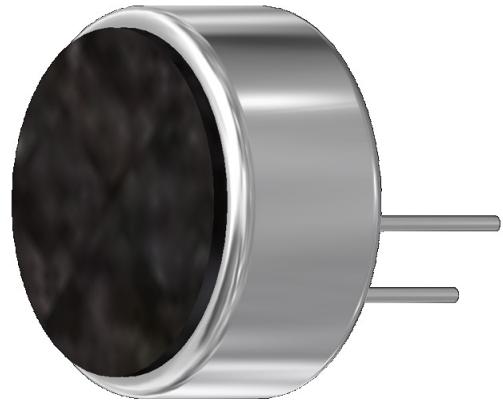


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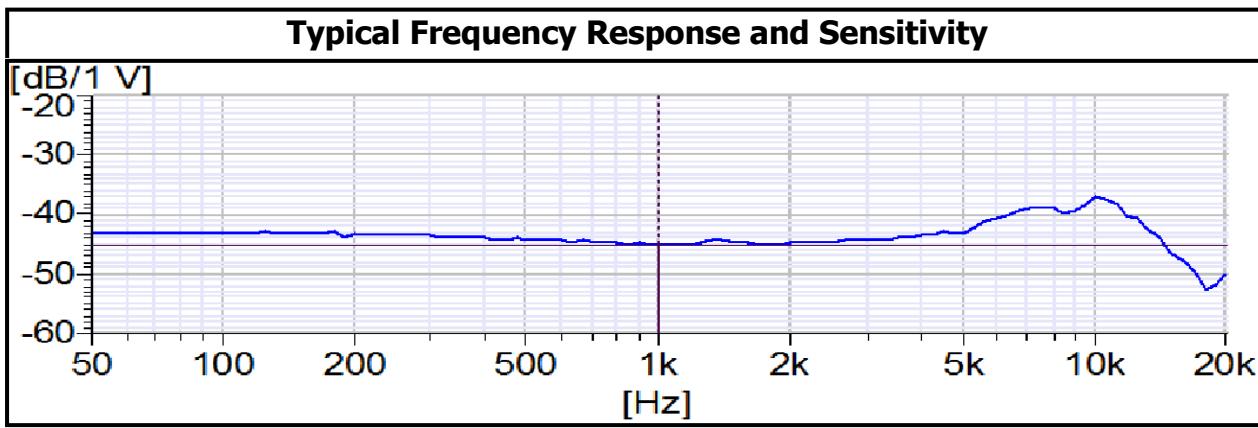
3541 Stop Eight Road • Dayton, Ohio 45414

## AOM-4544P-2-R Omni-Directional Microphone



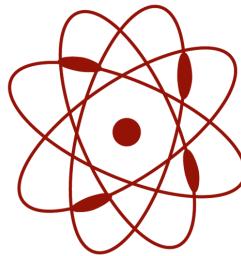
### Product Overview

- 9.7mm overall diameter and 4.5mm height with pin-type mounting
- -44 dB sensitivity for use in most environments
- Wide 1 to 10 VDC operating voltage and 50-16,000 Hz frequency response
- >60 dB signal-to-noise ratio and 2.2 kOhm impedance
- Omni-directional polar pattern for great off-axis response



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# AOM-4544P-2-R

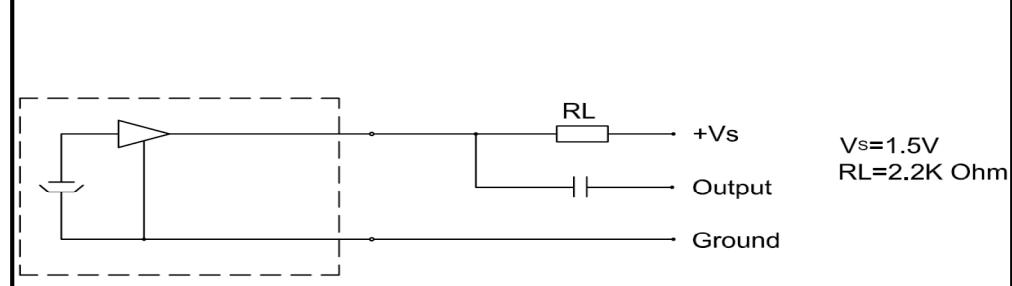
## Omni-Directional

### Microphone

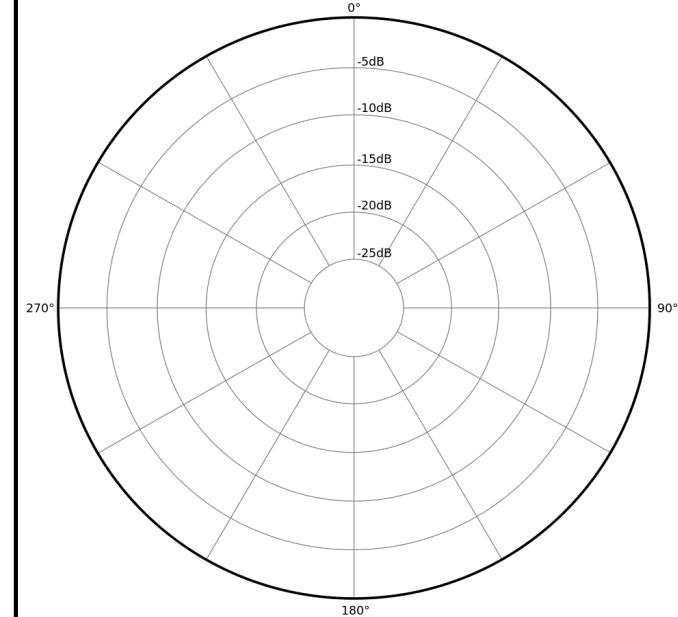
#### Mechanical and Environment Testing

Test Description	Test Condition
High Temperature	70°C with random humidity for 200 hours
Low Temperature	-25°C with random humidity for 200 hours
Humidity	40°C with 90% relative humidity for 200 hours
Vibration	3 mm movement for 3 minutes in each of 3 axis
Drop Test	70 cm free fall onto 20 mm thick board, two directions
Temperature Cycle Test	-10°C to 50°C, 5 cycles

#### Recommended Drive Circuit



#### Microphone Polar Response Plot



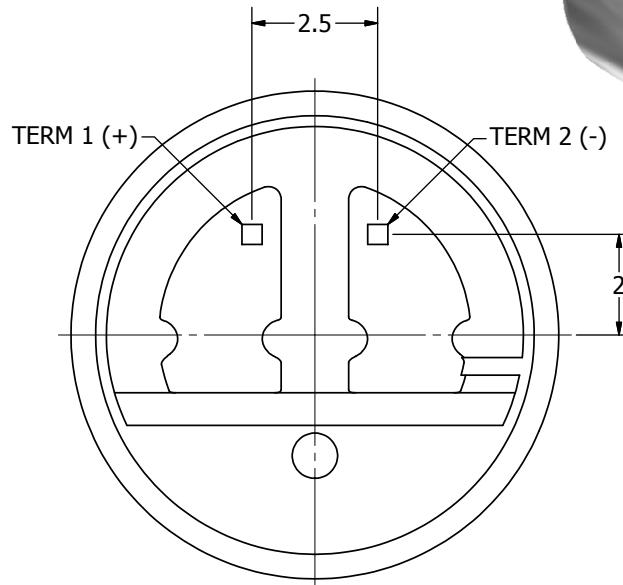
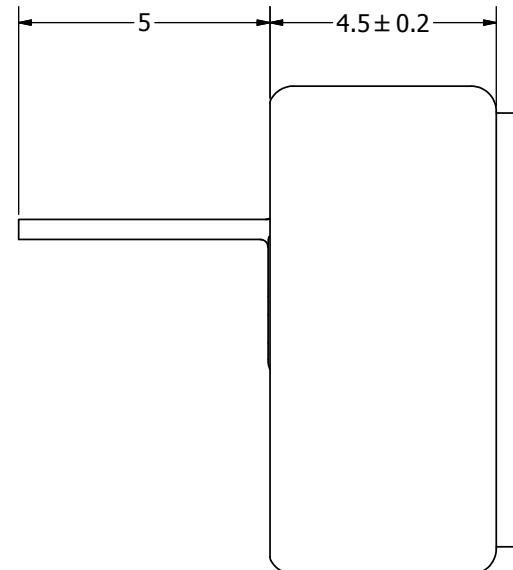
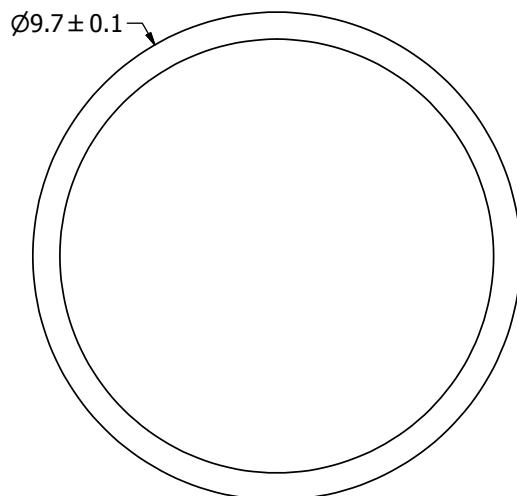
## SPECIFICATIONS

PARAMETERS	VALUES	UNITS
DIRECTIVITY	OMNI	-
SENSITIVITY	-44 ± 2	dB
STANDARD OPERATING VOLTAGE	1.5	Vdc
MAX OPERATING VOLTAGE	10	Vdc
CURRENT CONSUMPTION (MAX)	0.5	mA
IMPEDANCE	2.2	KOhm
SIGNAL TO NOISE RATIO (MIN.)	60	dB
TERMINAL	PIN	-
INTERNAL CAPACITOR	N/A	pF

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## REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	1/30/2006	
A	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	9/8/2010	B.R.



### NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWL WITHOUT NOTICE.
3. THIS PART IS RoHS 2002/95/EC COMPLIANT.

UNLESS OTHERWISE  
SPECIFIED:  
DIMENSIONS ARE IN  
MILLIMETERS,  
TOLERANCES  
ARE ±0.5 AND  
ANGLES ARE ±3°.

SIZE  
**A3**

AOM-4544P-2-R.idw

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**AOM-4544P-2-R**

Microphone

Edition  
-  
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1 / 1