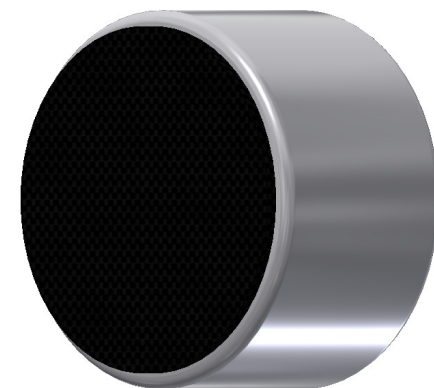


PNM-3546L-R Noise-Canceling Microphone

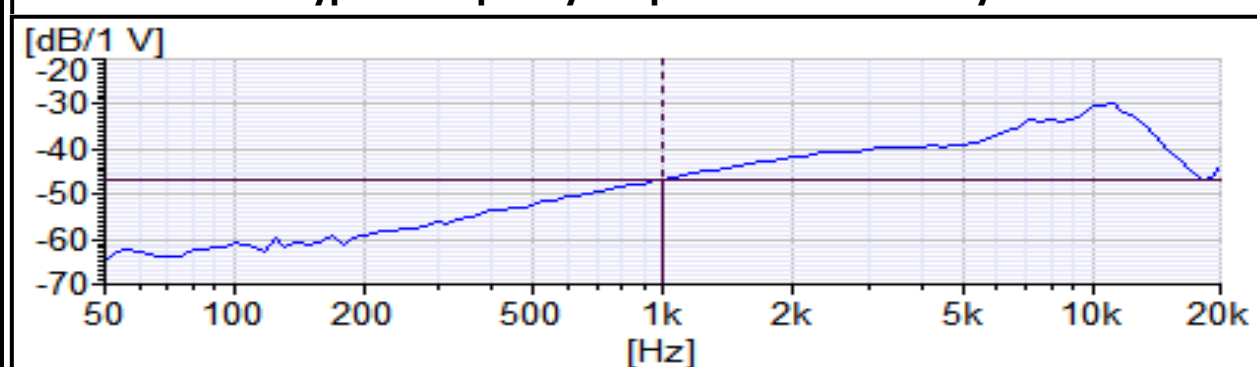


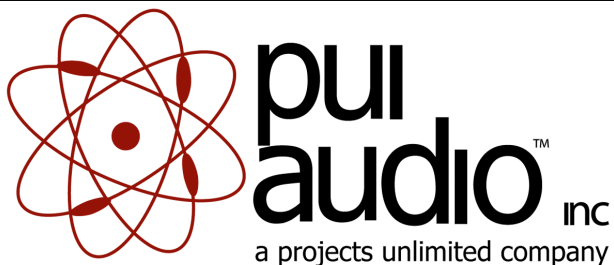
3541 Stop Eight Road • Dayton, Ohio 45414

Product Overview

- 6mm overall diameter and 3.5mm height with solder pads
- -46 dB sensitivity for use in most environments
- Wide 2 to 10 VDC operating voltage and 50-16,000 Hz frequency response
- >68 dB signal-to-noise ratio and 2.2 kOhm impedance
- Omni-directional polar pattern for great off-axis response

Typical Frequency Response and Sensitivity

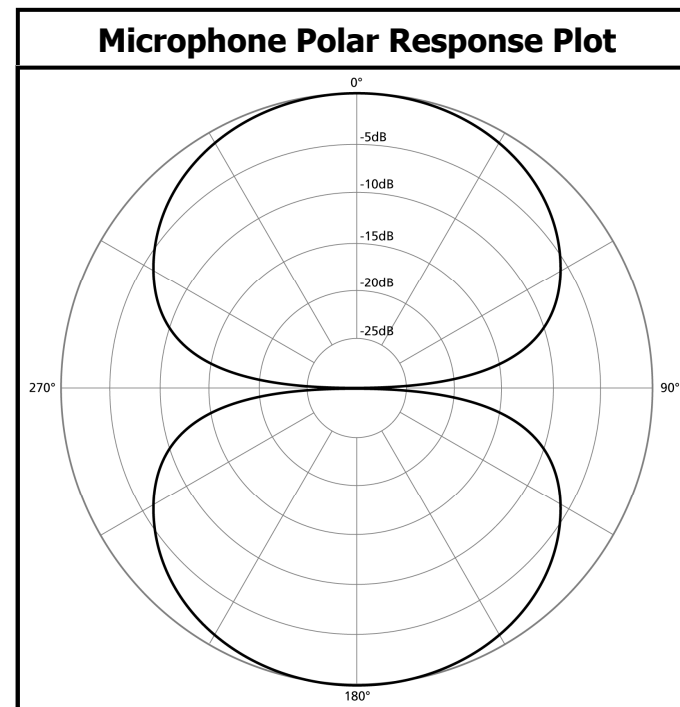
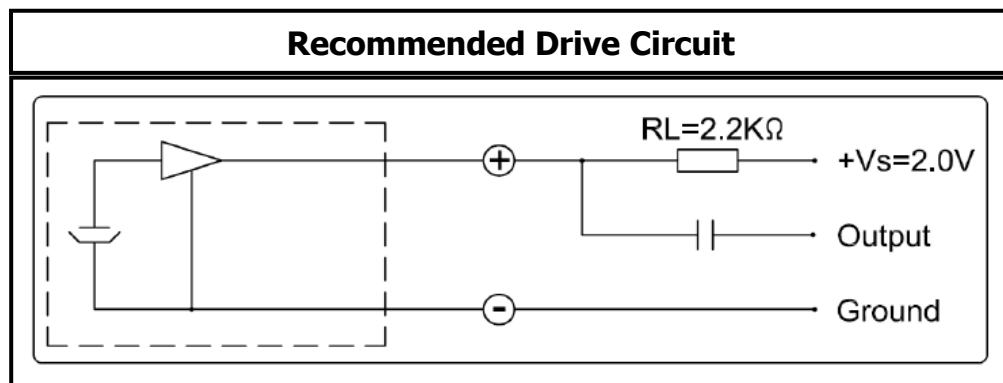




PNM-3546L-R

Noise-Canceling 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



SPECIFICATIONS

PARAMETERS	VALUES	UNIT
DIRECTIVITY	NOISE CANCELLING	-
SENSITIVITY	-46 ± 4	dB
STANDARD OPERATING VOLTAGE	2	Vdc
MAX OPERATING VOLTAGE	10	Vdc
CURRENT CONSUMPTION (MAX)	0.5	mA
IMPEDANCE	2.2	KOhm
SIGNAL TO NOISE RATIO (MIN.)	60	dB
MAXIMUM SOUND INPUT	110	dB
OPERATING TEMPERATURE	-20 ~ +70	°C
STORAGE TEMPERATURE	-40 ~ +85	°C
TERMINAL	SOLDER PADS	-
INTERNAL CAPACITOR	N/A	pF

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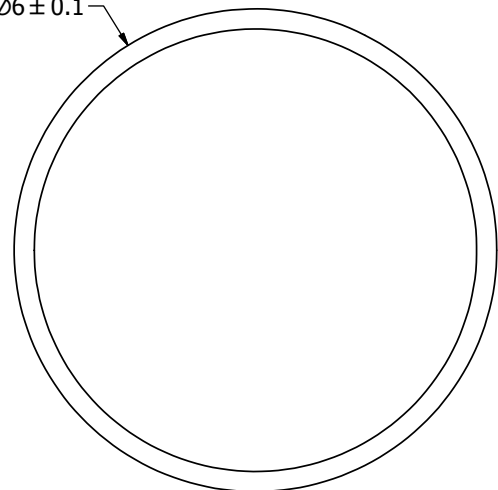
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REVISION HISTORY

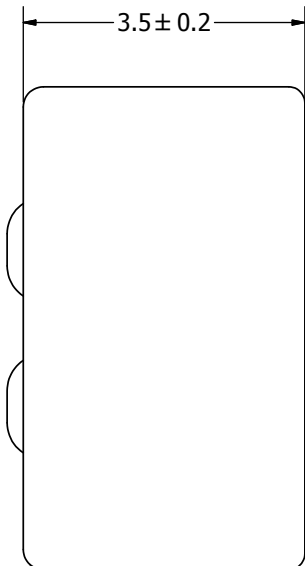
LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	1/30/2006	
A	ADDED TERMINAL POLARITY	2/1/2007	D.F.
B	REVISED ELECTRICAL PARAMETERS	2/4/2010	B.R.
C	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	9/23/2010	B.R.



Ø6 ± 0.1

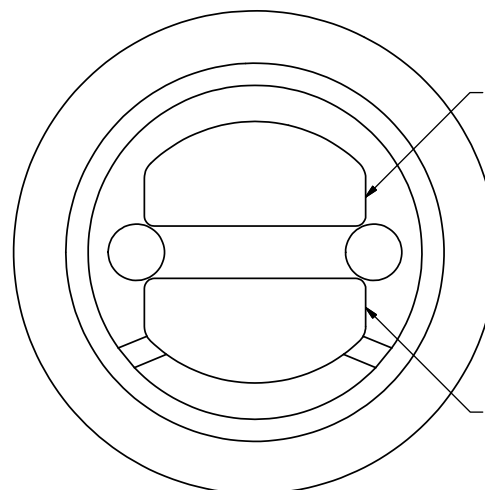


3.5 ± 0.2



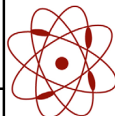
TERM 1 (+)

TERM 2 (-)



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWAL 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	Designed by	Date	Checked by	Date	Approved by	Date	Drawn Date
		J.A.F.	1/30/2006	E.P.	1/30/2006	B.R.	1/30/2006	9/23/2010
		 pu audio™ a projects unlimited company				PNM-3546L-R		
						Microphone		
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