

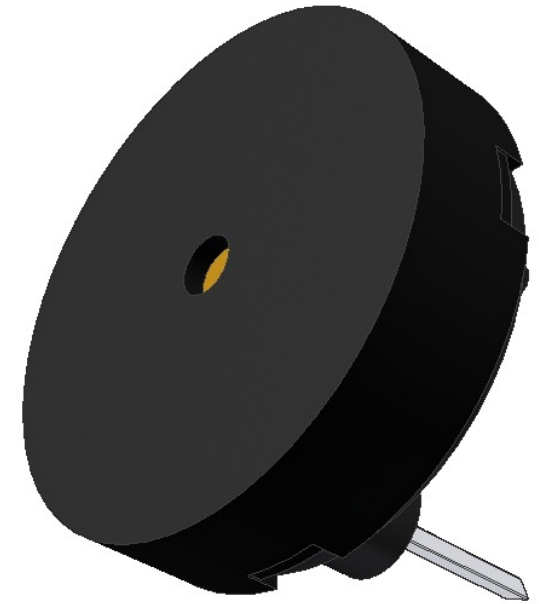
**pui  
audio**™ inc  
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## AT-1740-TT-3-R 17mm Transducer

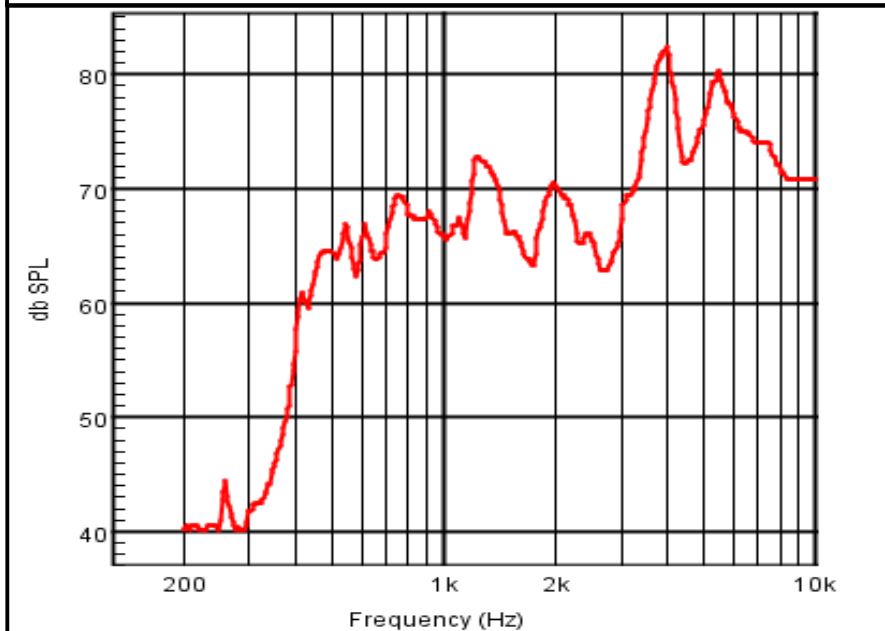
3541 Stop Eight Road • Dayton, Ohio 45414

### Product Overview

- 17mm diameter piezoelectric transducer with ultra-low 1 mA current draw
- 78 dBA minimum output (3Vp-p @ 10 cm) and 4 kHz resonant frequency
- MPPO housing for durability
- Designed to be hand-soldered

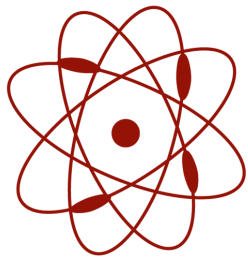


**Frequency Response (3 Vp-p @ 0.1 meters)**



Audio Products of PUI Audio Inc. & Co.



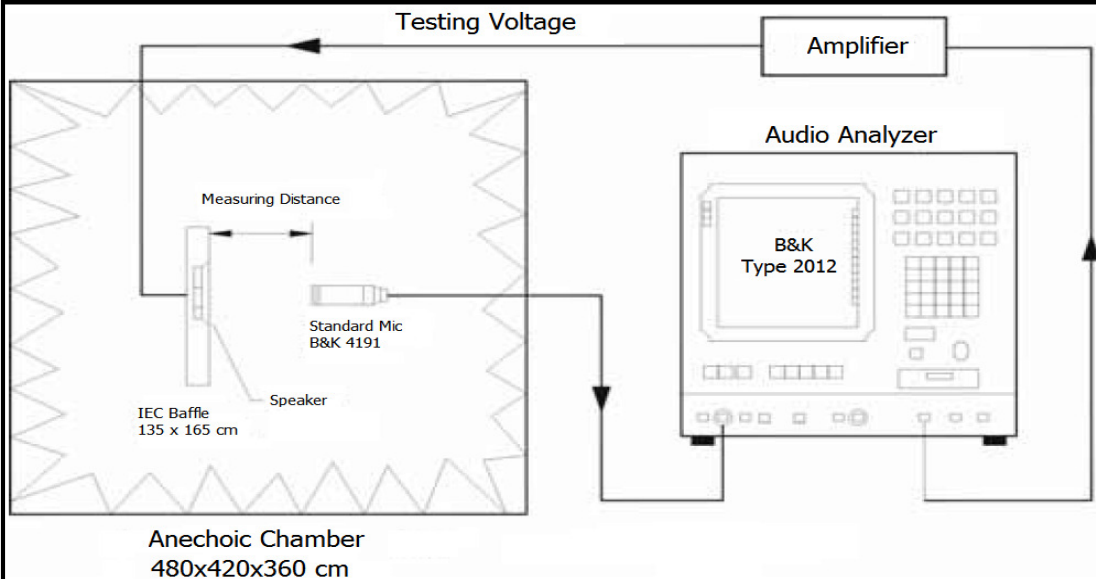


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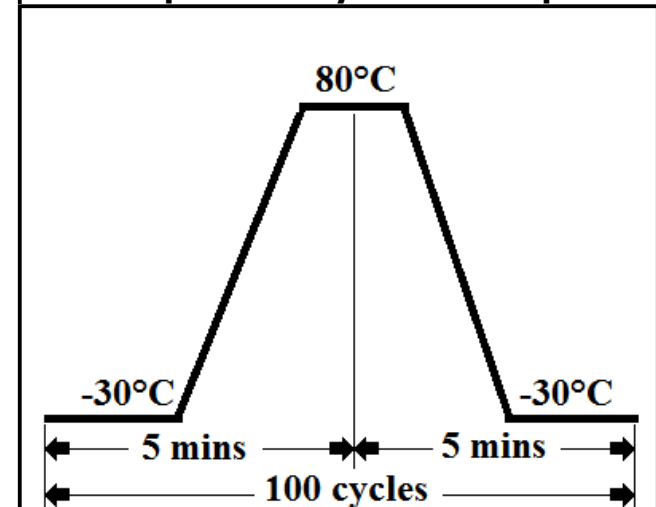
## AT-1740-TT-3-R 17mm Transducer

Mechanical and Environment Testing	
Test Description	Test Condition
High Temperature	80°C ( $\pm 2^\circ\text{C}$ ) with random humidity for 96 hours
Low Temperature	-30°C ( $\pm 2^\circ\text{C}$ ) with random humidity for 96 hours
Humidity	40°C ( $\pm 2^\circ\text{C}$ ) with 90% to 95% relative humidity for 96 hours
Vibration	0.75 mm movement modulated at 10-55 Hz for 2 hours
Drop Test	100 cm free fall onto 40 mm wood board, 3 axis, 2 cycles per axis
Temperature Cycle Test	-30°C to 80°C, 100 cycles
After tests, part shall rest for 2 hours. Parts are then tested for clean, pure tones.	

### Frequency Response and SPL Measurement Setup



### Temperature Cycle Test Graph



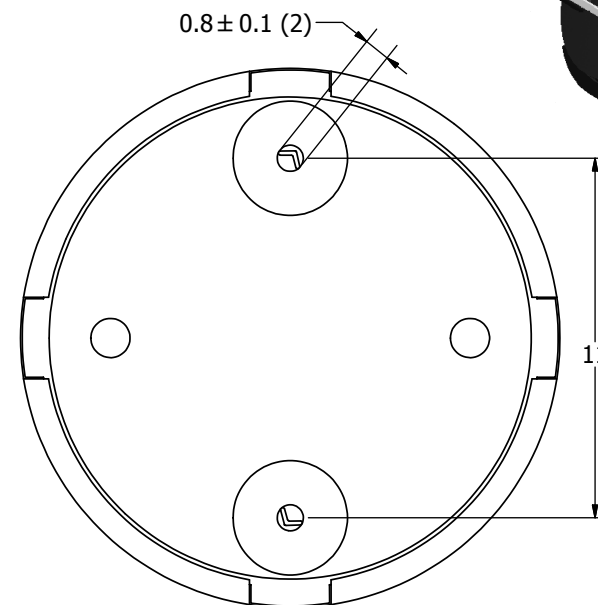
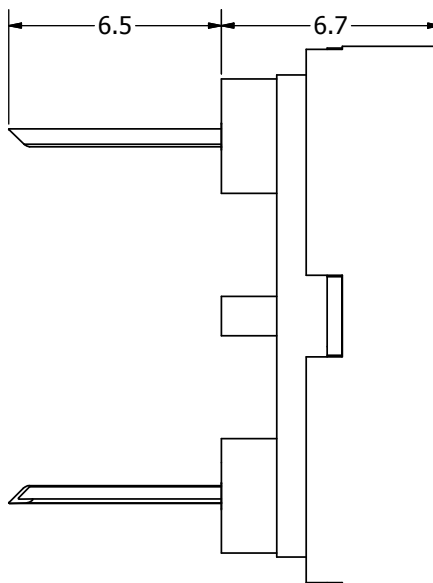
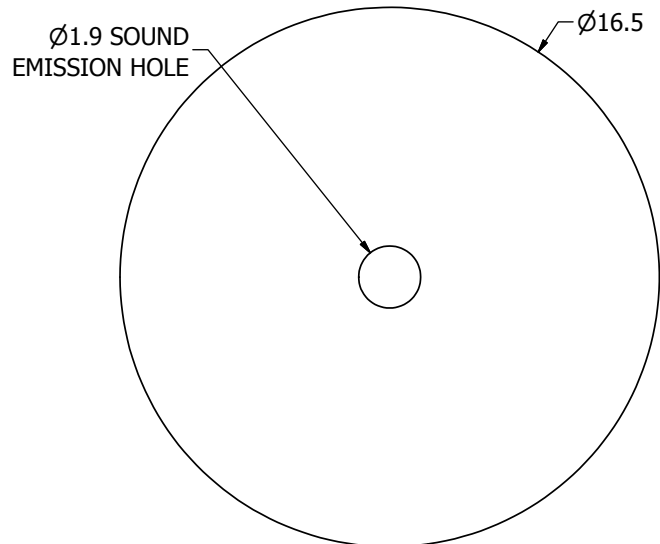
## SPECIFICATIONS

PARAMETERS	VALUES	UNITS
RATED VOLTAGE	3	Vp-p
OPERATING VOLTAGE RANGE	1 ~ 30	Vp-p
RATED CURRENT (MAX)	1	mA
CAPACITANCE	10,000 ± 30%	pF
MINIMUM SPL @ 10 CM	78	dBa
RESONANT FREQUENCY	4,000 ± 500	Hz
OPERATING TEMPERATURE	-20 ~ +70	°C
STORAGE TEMPERATURE	-30 ~ +80	°C
HOUSING MATERIAL	MPPO	-
TERMINAL MATERIAL	Sn PLATED PHOSPHOR BRONZE	-
WEIGHT	1	grams

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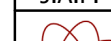
## REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	1/13/2006	
A	ADDED PIN TOLERANCE	6/21/2007	D.F.
B	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	4/22/2008	B.R.



## NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS.
- SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWAL WITHOUT NOTICE.
- THIS PART IS RoHS 2002/95/EC COMPLIANT.

UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN MILLIMETERS,  TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°.	SIZE	Designed by	Date	Checked by	Date	Approved by	Date	Drawn Date	
		J.A.F.	1/13/2006	E.P.	1/13/2006	B.R.	1/13/2006	4/22/2008	
	A3	 <b>pui audio</b> <sup>TM</sup> inc. <small>a projects unlimited company</small>			AT-1740-TT-3-R				
AT-1740-TT-3-R.idw						Transducer (Piezo)		Edition	Sheet
								-	1 / 1

# Mouser Electronics

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