

Excellent Integrated System Limited

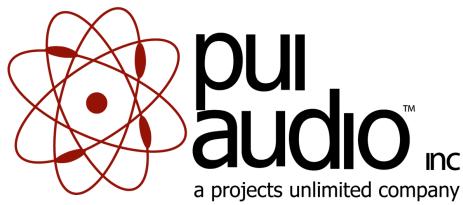
Stocking Distributor

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[PUI Audio, Inc.](#)
[AT-1438-TWT-R](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

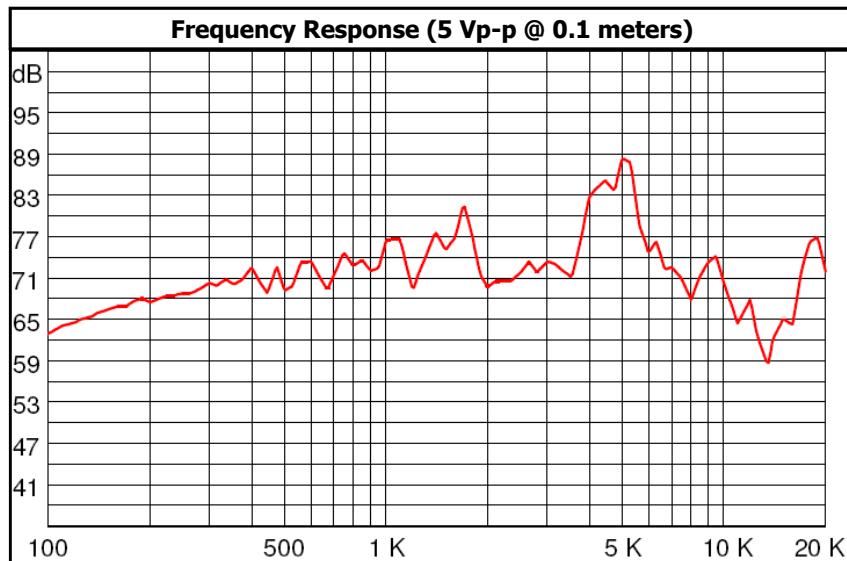
**3541 Stop Eight Road • Dayton, Ohio 45414**

AT-1438-TWT-R 14mm Transducer

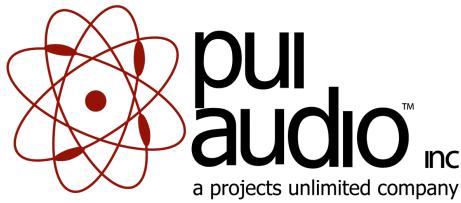


Product Overview

- 14mm diameter transducer with 1 mA current draw
- 80 dBA minimum output (5 Vp-p @ 10 cm) and 3.8 kHz resonant frequency
- Noryl™ housing withstands Wave soldering temperatures
- Removable wash tag preserves performance



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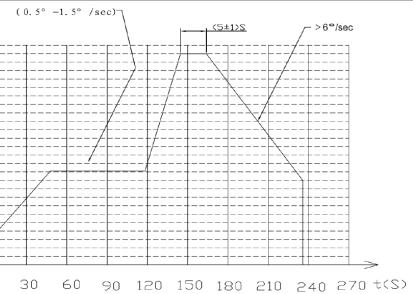


AT-1438-TWT-R 14mm Transducer

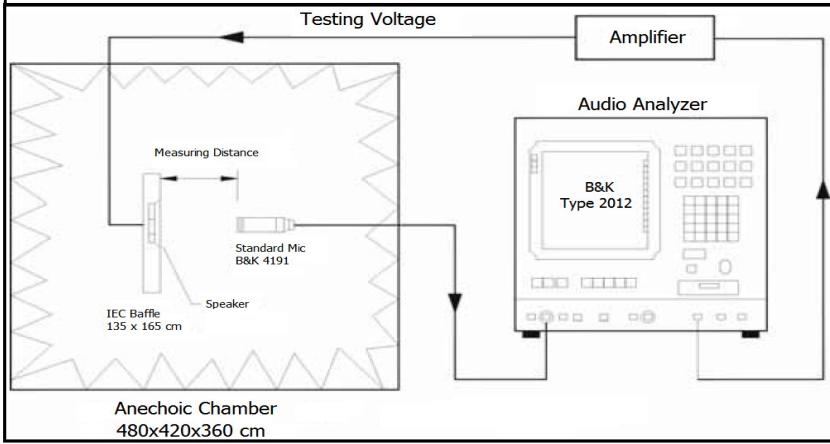
Mechanical and Environment Testing	
Test Description	Test Condition
High Temperature	85°C ($\pm 2^\circ\text{C}$) with random humidity for 96 hours
Low Temperature	-25°C ($\pm 2^\circ\text{C}$) with random humidity for 96 hours
Humidity	40°C ($\pm 2^\circ\text{C}$) with 90% to 95% relative humidity for 96 hours
Vibration	0.75 mm movement modulated at 10-55 Hz for 3 hours
Drop Test	100 cm free fall onto wood board, 10 cycles
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.

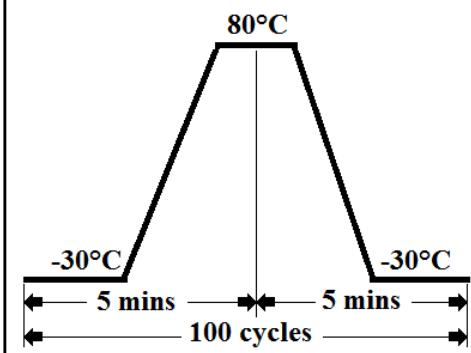
Wave Solder Profile



Frequency Response and SPL Measurement Setup



Temperature Cycle Test Graph



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SPECIFICATIONS

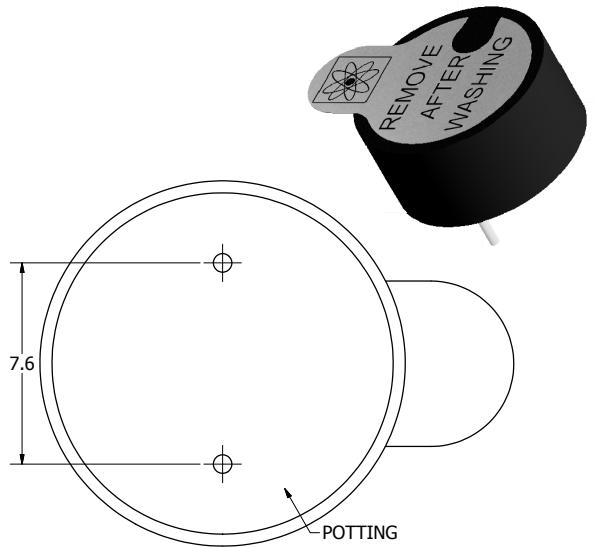
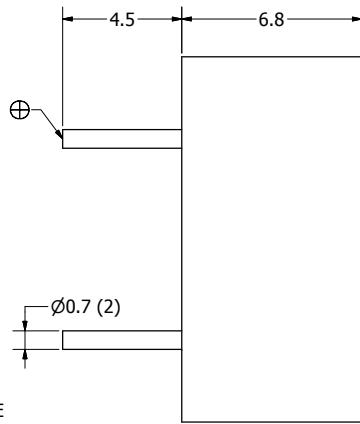
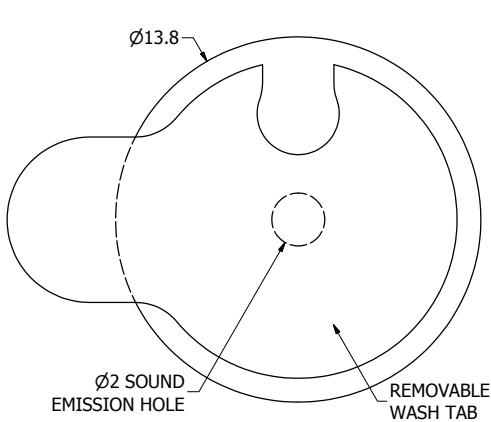
PARAMETERS	VALUES	UNITS
RATED VOLTAGE	5	Vp-p
OPERATING VOLTAGE RANGE	1 ~ 20	Vp-p
RATED CURRENT (MAX)	1	mA
CAPACITANCE	13,000 ± 30%	pF
MINIMUM SPL @ 10 CM	80	dBA
RESONANT FREQUENCY	3,800 ± 500	Hz
OPERATING TEMPERATURE	-30 ~ +80	°C
STORAGE TEMPERATURE	-30 ~ +80	°C
HOUSING MATERIAL	NORYL	-
TERMINAL MATERIAL	Sn PLATED RED COPPER	-
WEIGHT	1	grams

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REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	8/17/2004	
A	REMOVED LEAD FREE ADDITIVE RoHS NOTE	8/10/2005	
B	REVISED TERMINAL MATERIAL	1/24/2006	B.R.
C	REVISED HOUSING MATERIAL	11/13/2006	B.R.
D	ADDED LABEL & POLARITY MARKING	11/22/2006	B.R.
E	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	4/16/2008	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	Designed by R.A.C.	Date 8/17/2004	Checked by	Date	Approved by R.W.	Date 8/17/2004	Drawn Date 4/16/2008
AT-1438-TWT-R.idw	A3	 pui audio ™ a projects unlimited company						

AT-1438-TWT-R

Transducer (Piezo)

Edition

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