

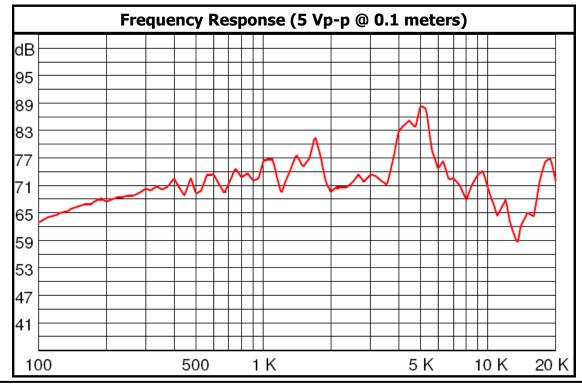
## AT-1438-TWT-R **14mm Transducer**

3541 Stop Eight Road • Dayton, Ohio 45414



#### **Product Overview**

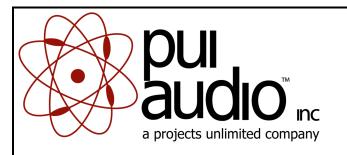
- 14mm diameter transducer with 1 mA current draw
- 80 dBA minimum output (5 Vp-p @ 10 cm) and 3.8 kHz resonant frequency
- Noryl<sup>™</sup> housing withstands Wave soldering temperatures
- Removable wash tag preserves performance





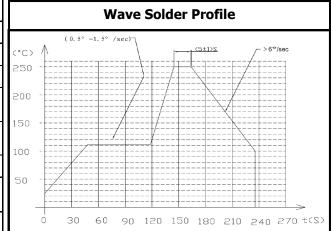


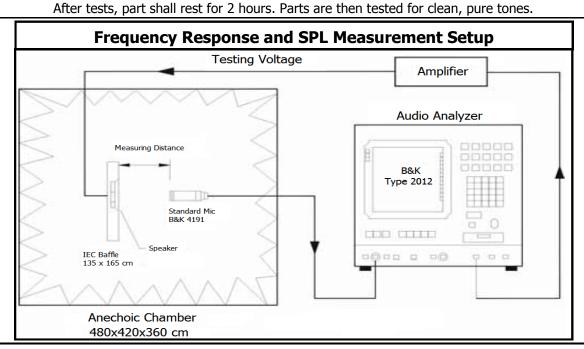


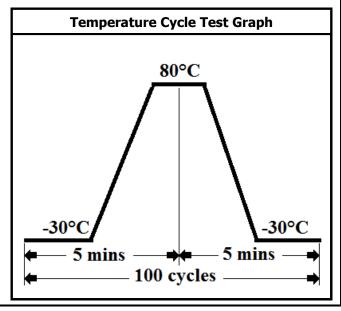


# AT-1438-TWT-R 14mm Transducer

Mechanical and Environment Testing				
Test Description	Test Condition			
High Temperature	85°C (±2°C) with random humidity for 96 hours			
Low Temperature	-25°C (±2°C) with random humidity for 96 hours			
Humidity	40°C (±2°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			





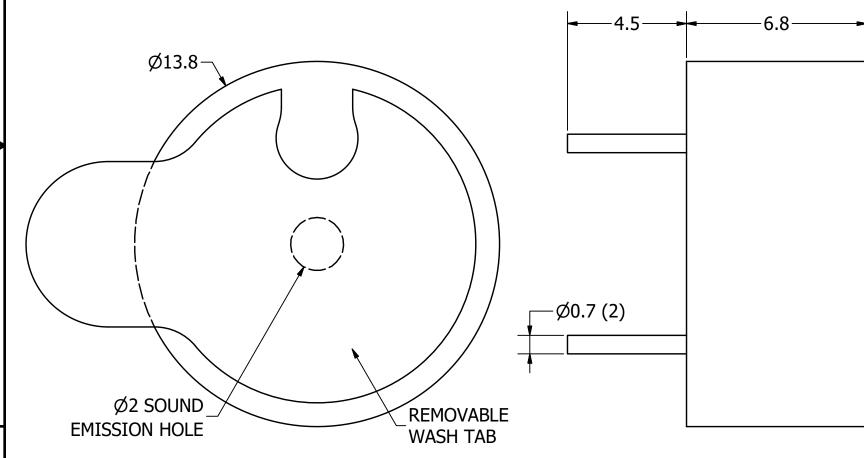


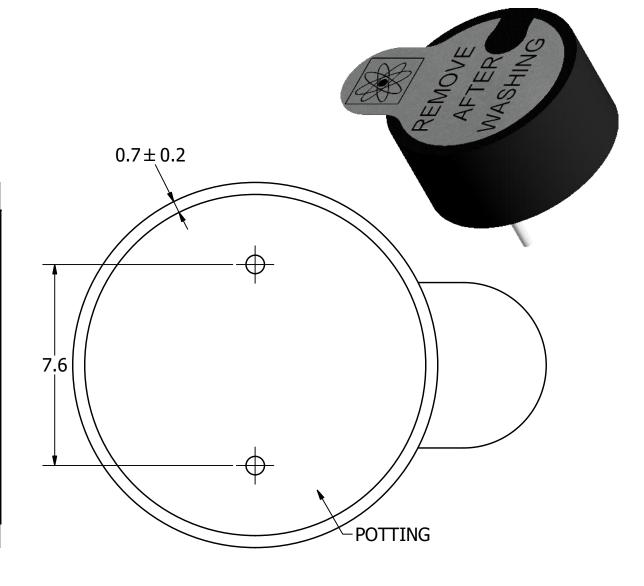
SPECIFICATIONS				
PARAMETERS	VALUES	UNITS		
RATED VOLTAGE	5	Vp-p		
OPERATING VOLTAGE RANGE	1 ~ 20	Vp-p		
RATED CURRENT (MAX)	1	mA		
CAPACITANCE	13,000 ± 30%	pF		
MINIMUM SPL @ 10 CM	80	dBA		
RESONANT FREQUENCY	3,800 ± 500	Hz		
OPERATING TEMPERATURE	-30 ~ +80	°C		
STORAGE TEMPERATURE	-30 ~ +80	°C		
HOUSING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

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0	REVISION HISTORY					
	LTR	DESCRIPTION	DATE	APPROVED		
	-	RELEASED FROM ENGINEERING	8/17/2004			
	Α	REMOVED LEAD FREE ADDE RoHS NOTE	8/10/2005			
	В	REVISED TERMINAL MATERIAL	1/24/2006	B.R.		
	С	REVISED HOUSING MATERIAL	11/13/2006	B.R.		
	D	ADDED LABEL & POLARITY MARKING	11/22/2006	B.R.		
	Е	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	4/16/2008	B.R.		
	F	REVISED TO REMOVE POLARITY & UPDATED ROHS STATEMENT	3/2/2017	M.V.		
[	G	ADDED WAVE SOLDER NOTE	1/25/2019	M.L.		





#### **NOTES:**

- 1. ALL DIMENSIONS ARE IN MILLIMETERS.
- 2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWL WITHOUT NOTICE.
- 3. THIS PART IS RoHS 2011/65/EU COMPLIANT.
- 4. WAVE SOLDER ACCEPTABLE.

UNLESS OTHERWISE SPECIFIED:	
DIMENSIONS ARE IN MILLIMETERS,	SIZE
TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°.	A3
AT-1438-T\	WT-R.idw

Designed by	Date	Checked by	Date	Approved by	Date		Drawn Date
R.A.C.	8/17/2004			R.W.	8/17/20	04 4	/16/2008
pul.			AT-1438-TWT-R				
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**Authorized Distributor** 

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PUI Audio: AT-1438-TWT-R