

pui audio™ inc
a projects unlimited company

AI-2437-TWT-R 24mm Indicator

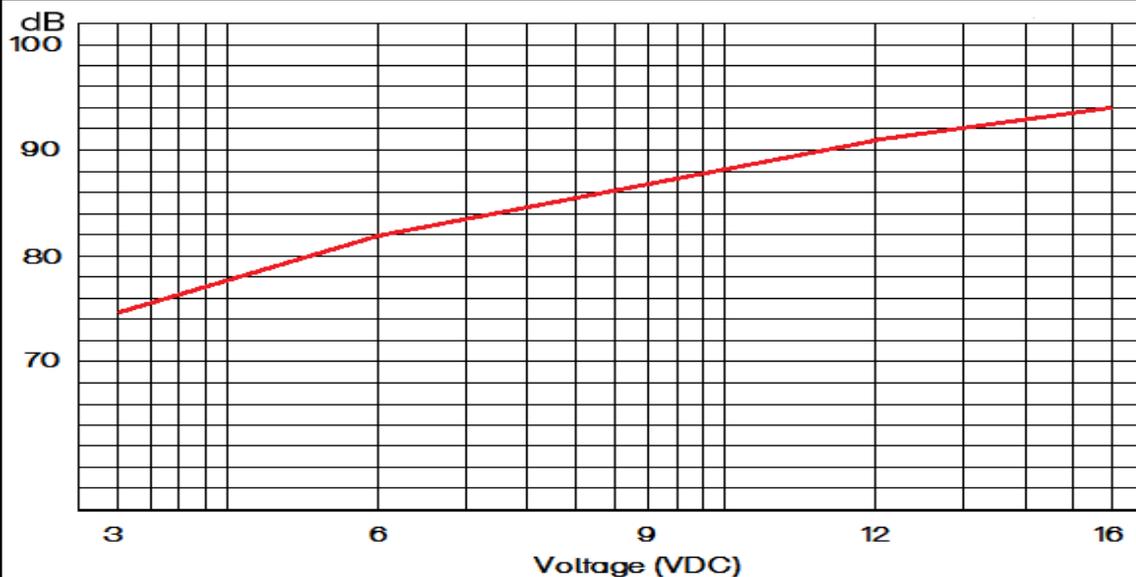


3541 Stop Eight Road • Dayton, Ohio 45414

Product Overview

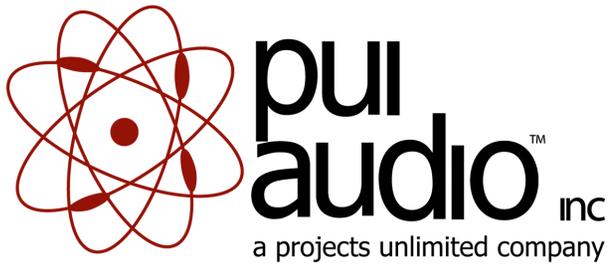
- 24mm diameter, 3-16 VDC self-drive indicator
- 100 dBA minimum output (12 VDC @ 10 cm) and 3,700 Hz continuous tone
- High-temp ABS 777 housing withstands Wave soldering temperatures
- Removable wash tag preserves performance

SPL vs Voltage (measured @ 30 cm)



RoHS Compliant





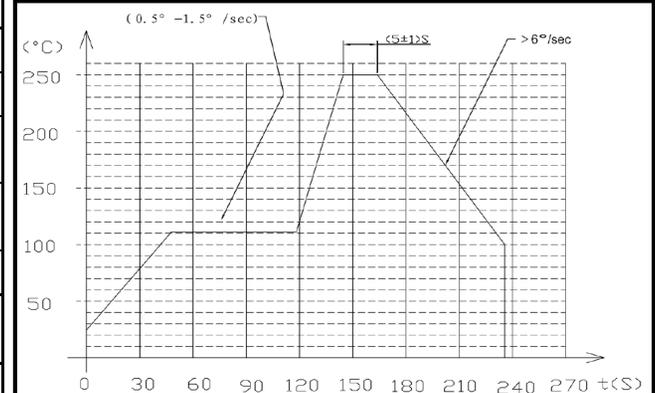
AI-2437-TWT-R 24mm Indicator

Mechanical and Environment Testing

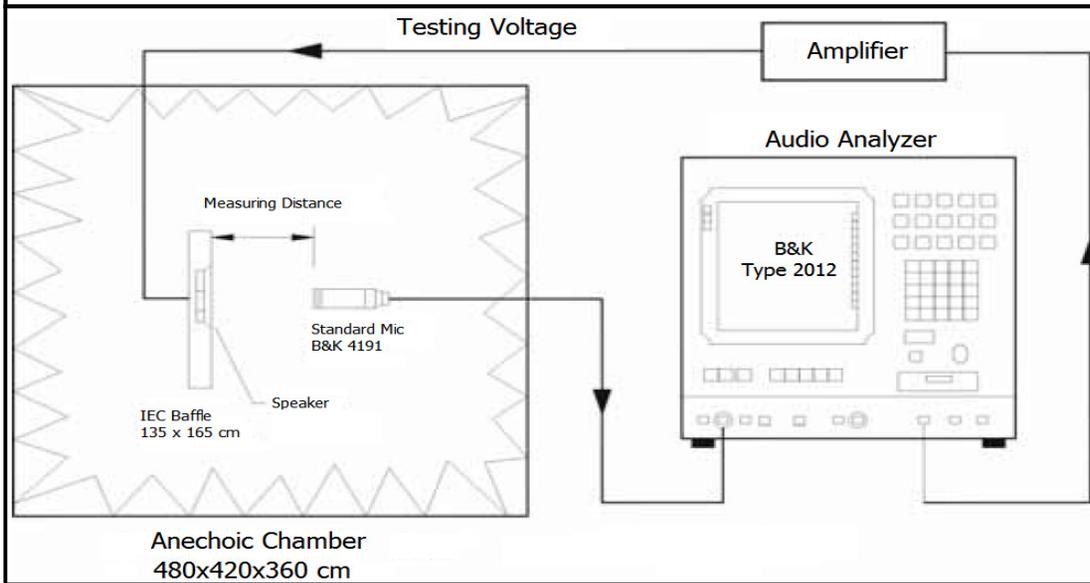
Test Description	Test Condition
High Temperature	70°C ($\pm 2^\circ\text{C}$) with random humidity for 96 hours
Low Temperature	-25°C ($\pm 2^\circ\text{C}$) with random humidity for 96 hours
Humidity	40°C ($\pm 2^\circ\text{C}$) with 90% to 95% relative humidity for 96 hours
Vibration	0.75 mm movement modulated at 10-55 Hz for 3 hours
Drop Test	100 cm free fall onto wood board, 10 cycles
Temperature Cycle Test	-25°C to 70°C, 100 cycles

After tests, part shall rest for 2 hours. Parts are then tested for clean, pure tones.

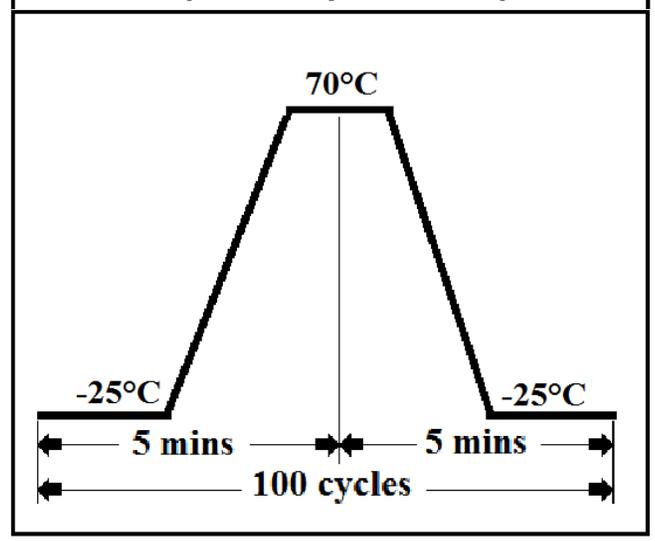
Wave Solder Profile



Frequency Response and SPL Measurement Setup



Temperature Cycle Test Graph



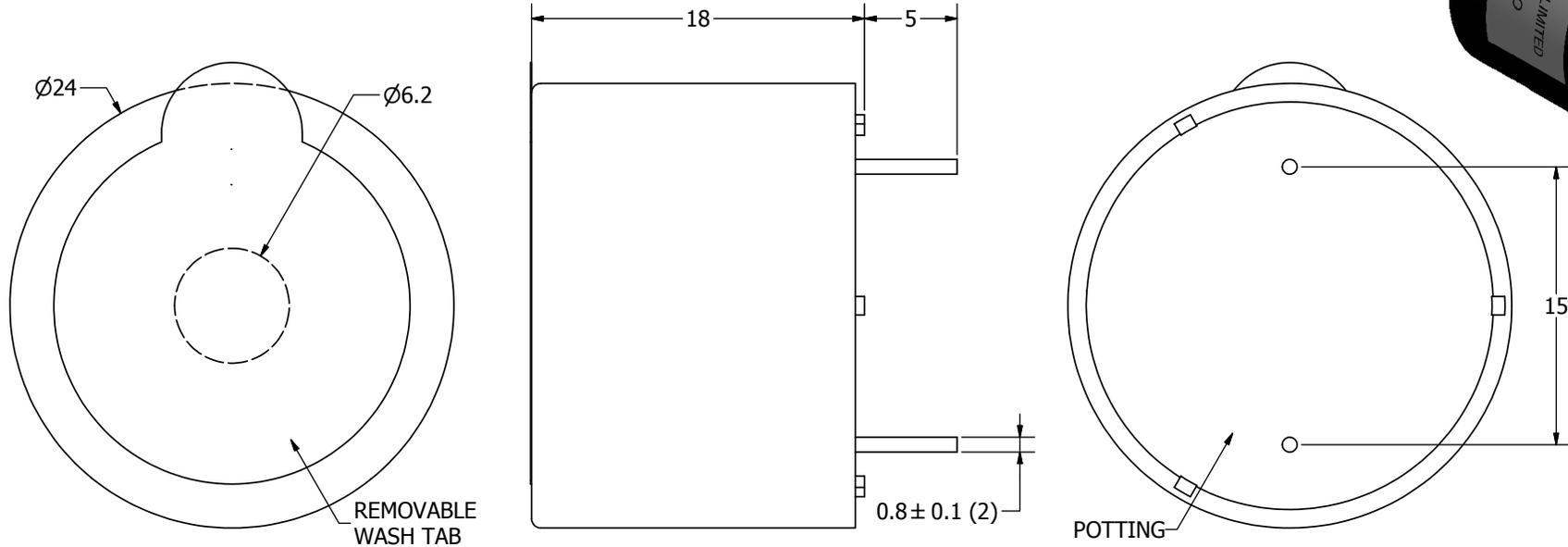
SPECIFICATIONS

PARAMETERS	VALUES	UNITS
RATED VOLTAGE	12	Vdc
OPERATING VOLTAGE RANGE	3 ~ 16	Vdc
RATED CURRENT (MAX)	8	mA
MINIMUM SPL @ 10 CM	100	dBA
RESONANT FREQUENCY	3,700 ± 500	Hz
TONE OR PULSE RATE	CONTINUOUS	0 pulse /sec
OPERATING TEMPERATURE	-20 ~ +60	°C
STORAGE TEMPERATURE	-20 ~ +70	°C
HOUSING MATERIAL	ABS 777	-
TERMINAL MATERIAL	Sn PLATED COPPER	-
WEIGHT	6	grams

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REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	8/19/2004	
A	REMOVE LEAD FREE ADD RoHS STATEMENT	8/10/2005	B.R.
B	REVISED TERMINAL MATERIAL	3/21/2006	B.R.
C	REVISED TO INTENTOR 3-D DRAWING TEMPLATE	10/11/2007	B.R.



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	Designed by	Date	Checked by	Date	Approved by	Date	Drawn Date
	A3	R.A.C.	8/19/2004			R.W.	8/19/2004	10/11/2007
AI-2437-TWT-R.idw		 pui audio a projects unlimited company		AI-2437-TWT-R Indicator			Edition	Sheet
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