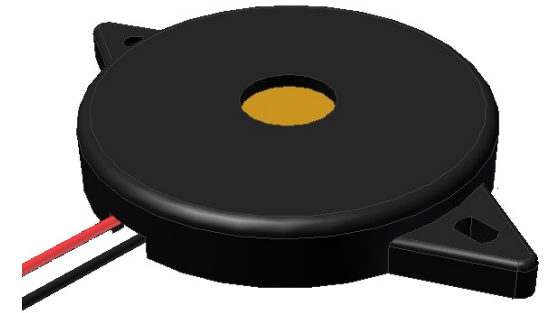




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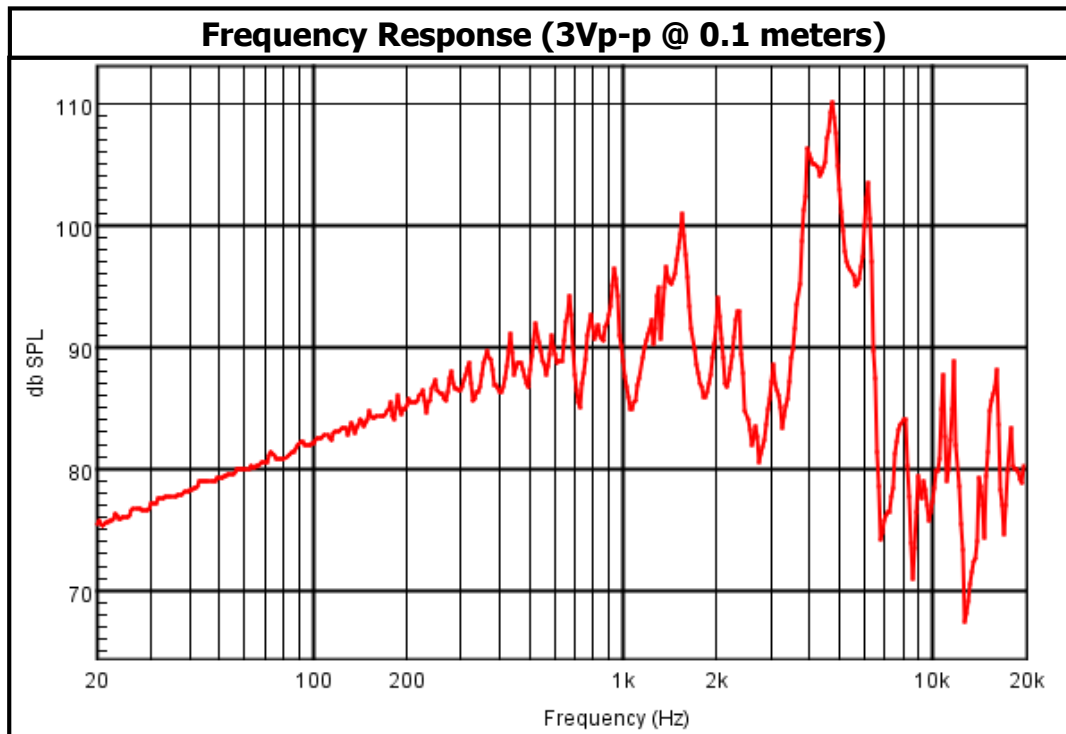
## AT-3045-TF-LW110-R 30mm Transducer



3541 Stop Eight Road • Dayton, Ohio 45414

### Product Overview

- 30mm diameter piezo-electric transducer with 110mm 28 AWG UL 1095 wire leads
- 97 dBA minimum output (10 Vp-p @ 10 cm) and 4.5 kHz resonant frequency
- ABS housing with mounting tabs for M1.6 or #1 screws
- Consumes only 11 mA of current at rated voltage



RoHS Compliant

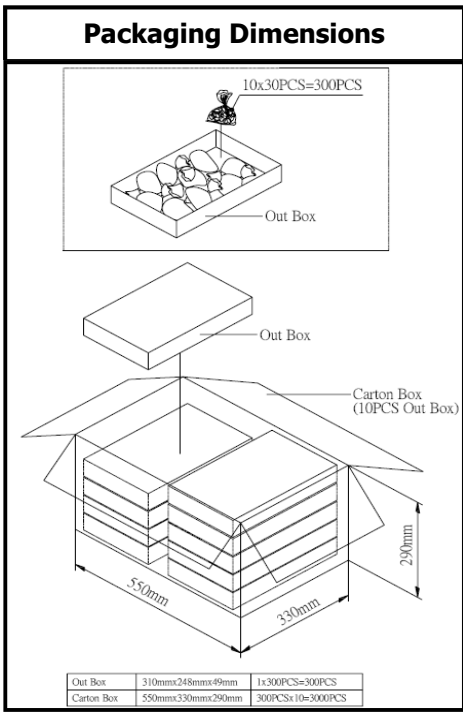
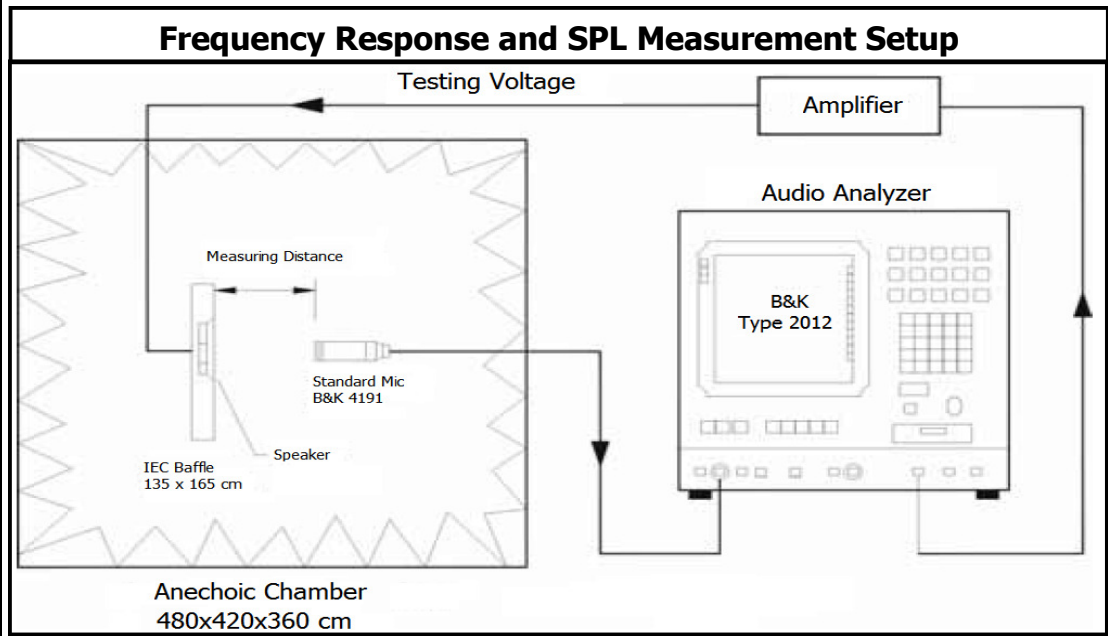
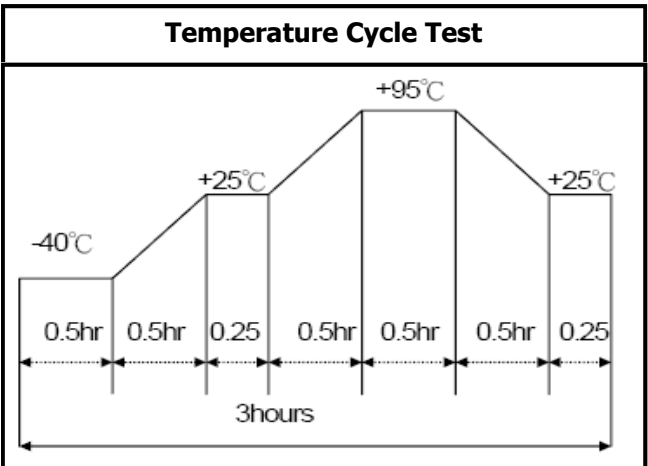




# AT-3045-TF-LW110-R 30mm Transducer

Mechanical and Environment Testing	
Test Description	Test Condition
High Temperature	95°C (±2°C) with random humidity for 240 hours
Low Temperature	-40°C (±2°C) with random humidity for 240 hours
Humidity	40°C (±2°C) with 90% to 95% relative humidity for 240 hours
Vibration	1.5 mm movement modulated at 10-55 Hz in 3 axis for 2 hours
Drop Test	75 cm free fall onto wood board, 9 cycles
Temperature Cycle Test	-40°C to 95°C, ten 3 hour cycles

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



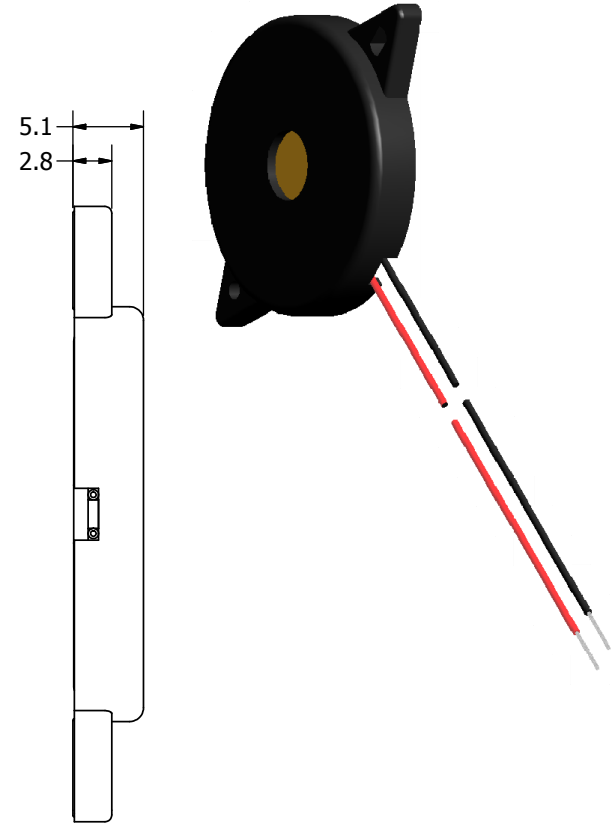
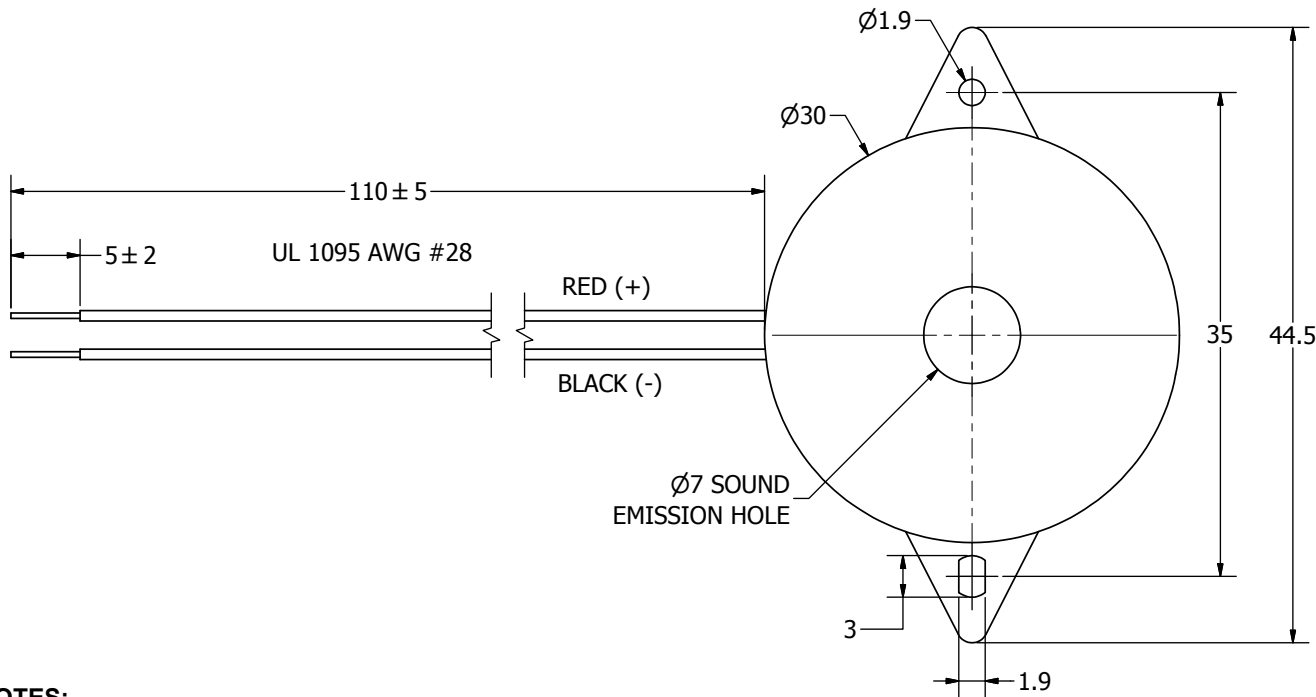
# SPECIFICATIONS

PARAMETERS	VALUES	UNITS
RATED VOLTAGE	10	Vp-p
OPERATING VOLTAGE RANGE	1 ~ 50	Vp-p
RATED CURRENT (MAX)	11	mA
CAPACITANCE	18,000 ± 30%	pF
MINIMUM SPL @ 10 CM	97	dBA
RESONANT FREQUENCY	4,500 ± 500	Hz
OPERATING TEMPERATURE	-30 ~ +85	°C
STORAGE TEMPERATURE	-40 ~ +95	°C
HOUSING MATERIAL	ABS	-
TERMINAL MATERIAL	LEAD WIRE	-
WEIGHT	5	grams

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# REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	8/9/2006	
A	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	8/22/2008	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 <b>A3</b>	Designed by	Date	Checked by	Date	Approved by	Date	Drawn Date
		J.D.	7/31/2006	E.P.	8/9/2006	R.W.	8/9/2006	8/22/2008
AT-3045-TF-LW110-R.idw		 <b>pui audio</b> a projects unlimited company		<b>AT-3045-TF-LW110-R</b> Transducer (Piezo)			Edition	Sheet
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