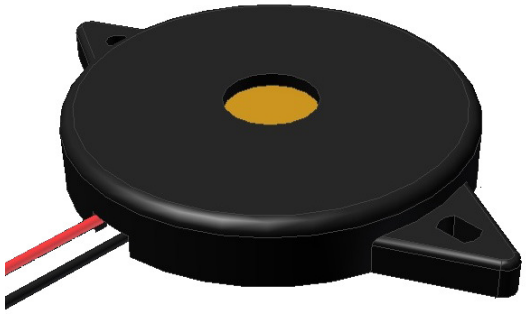
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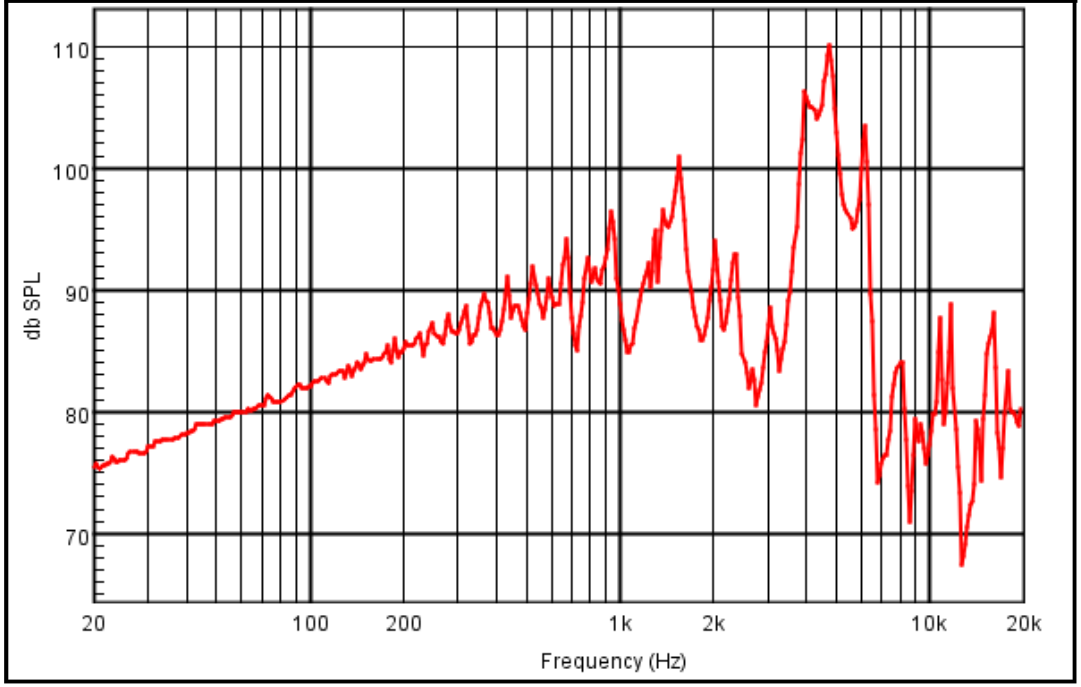
AT-3045-TF-LW110-R
30mm Transducer



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

Frequency Response (3Vp-p @ 0.1 meters)

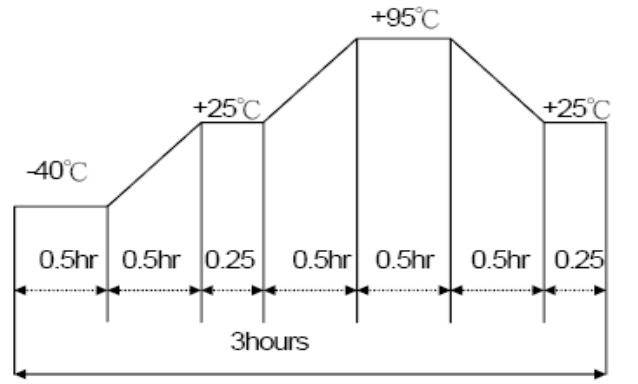


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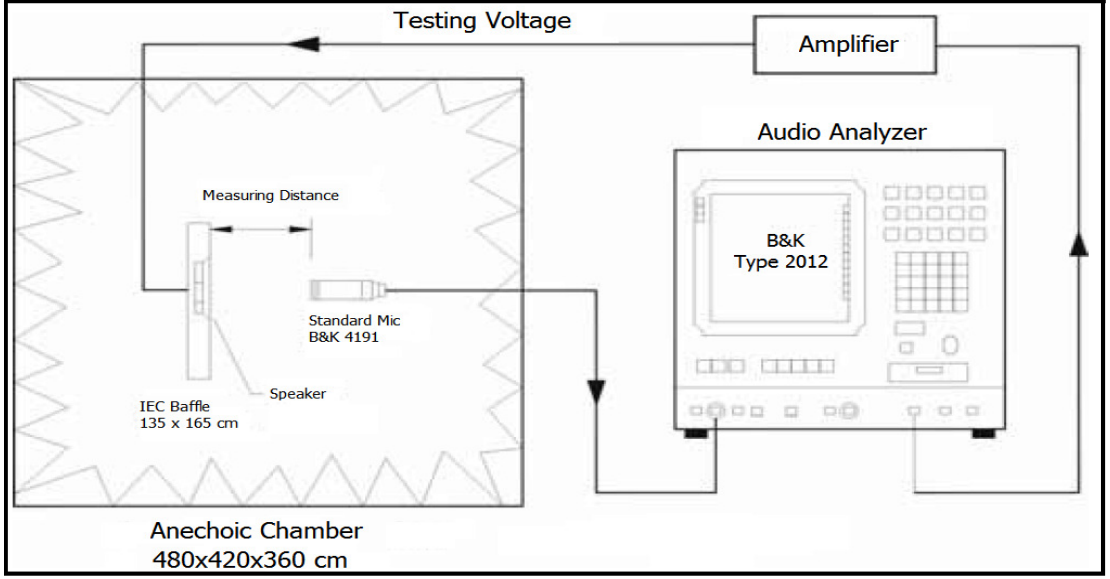
AT-3045-TF-LW110-R
30mm Transducer

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.	

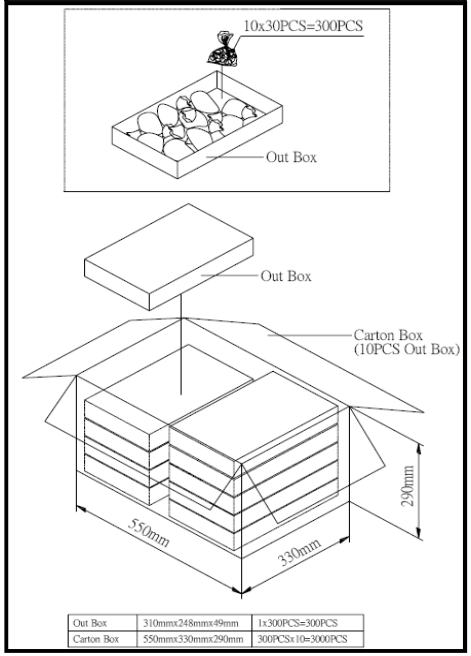
Temperature Cycle Test



Frequency Response and SPL Measurement Setup



Packaging Dimensions



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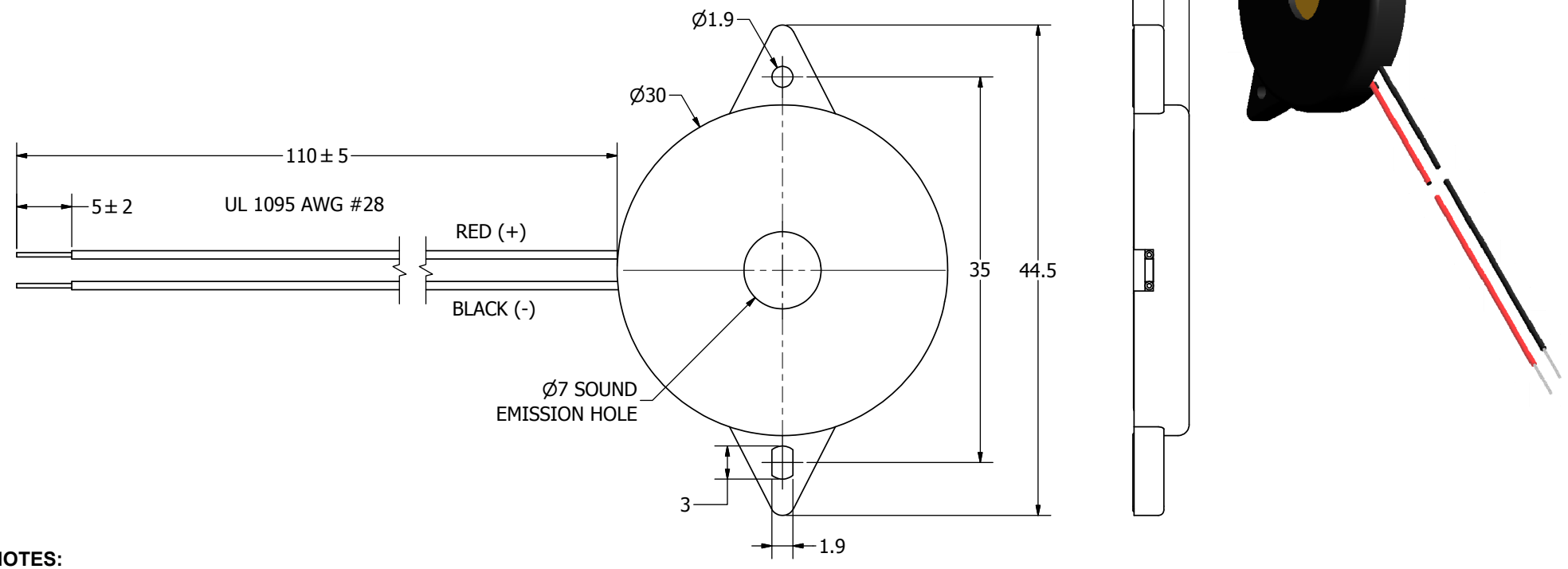
SPECIFICATIONS

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 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	Date	Checked by	Date	Approved by	Date	Drawn Date
	A3	J.D.	7/31/2006	E.P.	8/9/2006	R.W.	8/9/2006	8/22/2008

AT-3045-TF-LW110-R.idw

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AT-3045-TF-LW110-R

Transducer (Piezo)

Edition	Sheet
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