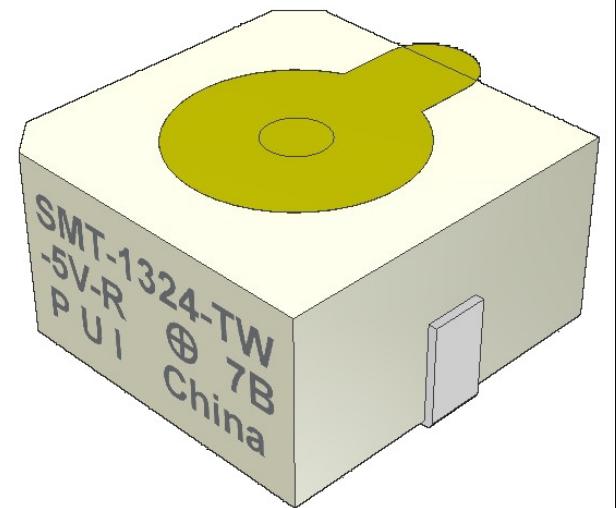


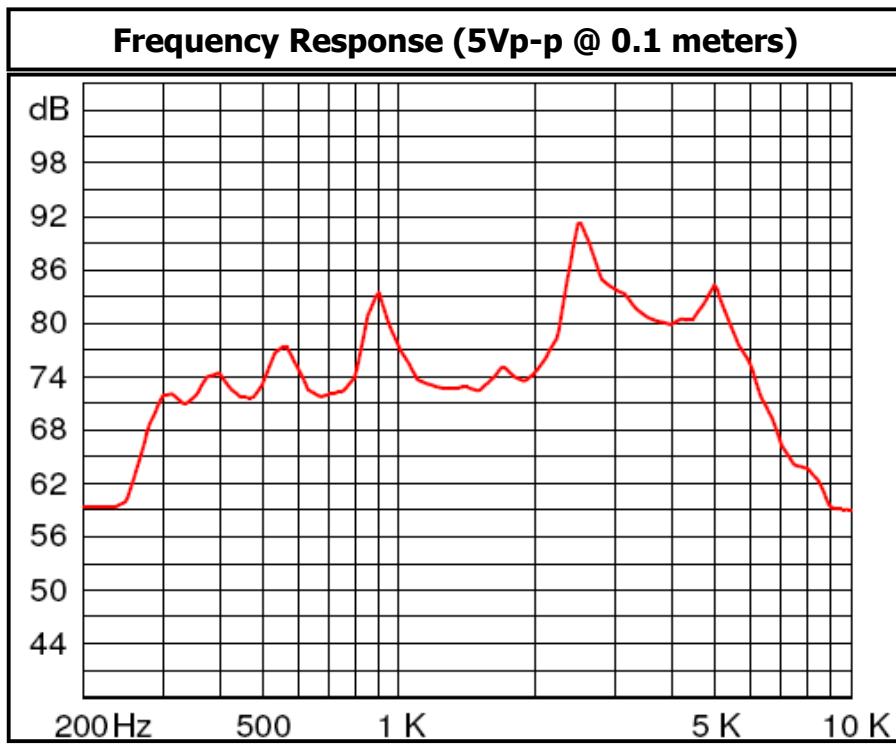
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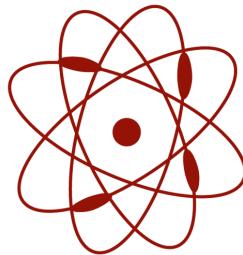
SMT-1324-TW-5V-R 12.5x12.5mm Transducer



Product Overview

- Top-firing electromechanical transducer designed for 4 to 8 Vp-p
- Small footprint with loud 85 dB output
- 2,400 Hz resonant frequency targets most sensitive region of human hearing
- Designed for reflow soldering with a lead-free reflow profile





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SMT-1324-TW-5V-R

12.5x12.5mm

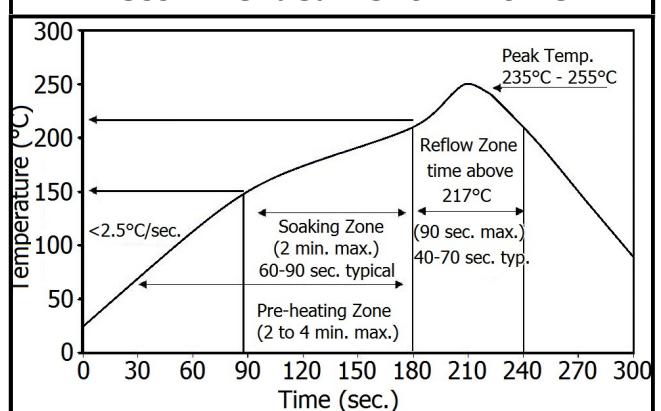
Transducer

Mechanical and Environment Testing

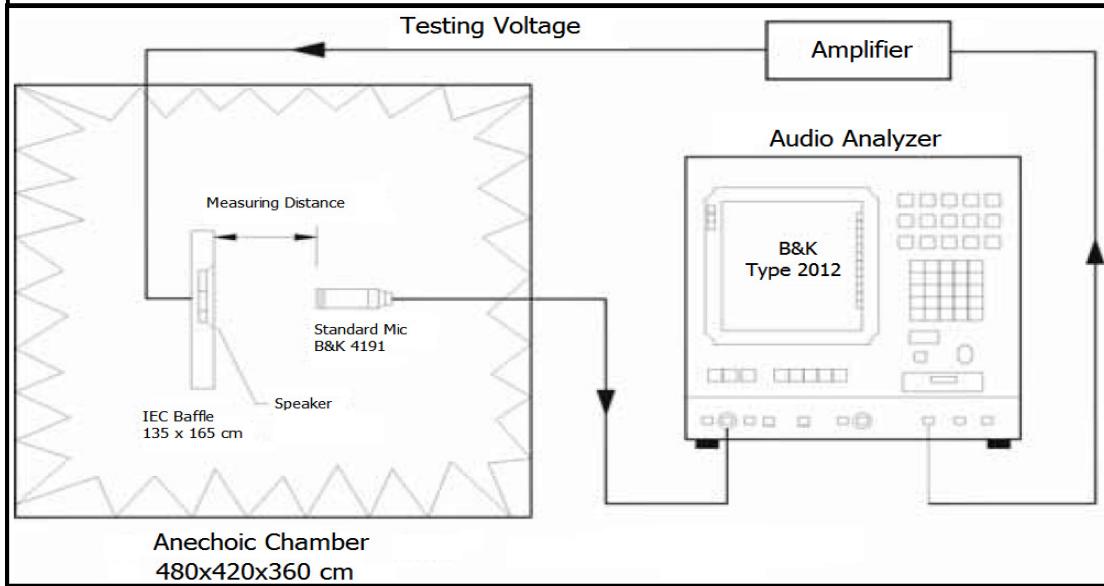
Test Description	Test Condition
High Temperature	85°C ($\pm 2^\circ\text{C}$) with random humidity for 96 hours
Low Temperature	-30°C ($\pm 2^\circ\text{C}$) with random humidity for 96 hours
Humidity	40°C ($\pm 2^\circ\text{C}$) with 90% to 95% relative humidity for 96 hours
Vibration	0.75 mm movement modulated at 10-55 Hz in 3 directions for 6 hours total
Drop Test	100 cm free fall in six directions, 3 cycles
Temperature Cycle Test	-30°C to 80°C, five 90 minute cycles

After testing, part shall rest for 2 hours and then be tested for a clean, pure tone.

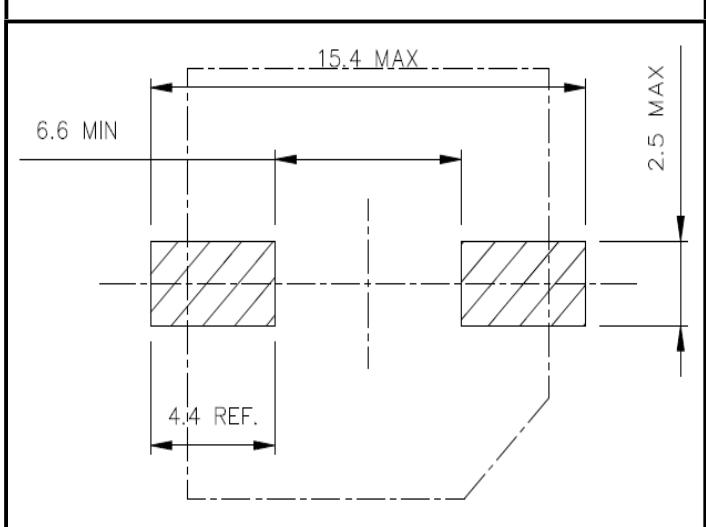
Recommended Reflow Profile



Frequency Response and SPL Measurement Setup



Recommended Land Pattern



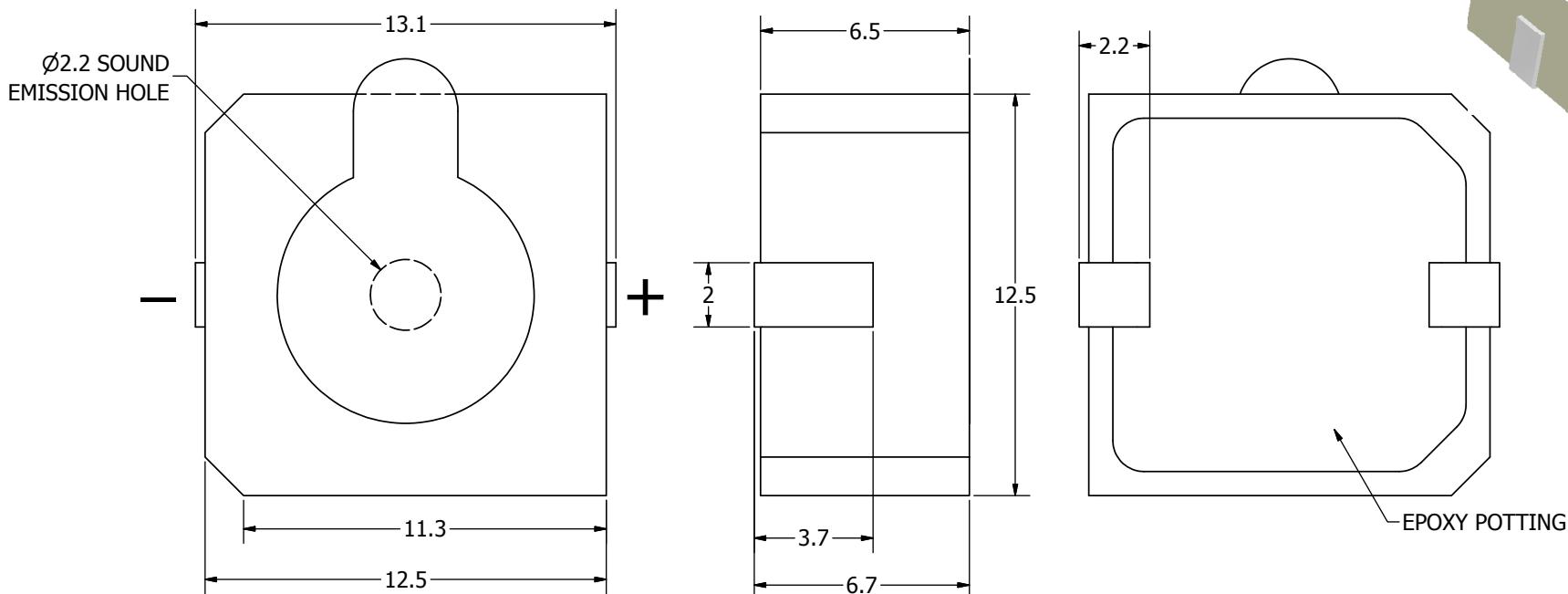
SPECIFICATIONS

PARAMETERS	VALUES	UNIT
RATED VOLTAGE (SQUARE WAVE)	5	Vp-p
OPERATING VOLTAGE RANGE	4 ~ 8	Vp-p
RATED CURRENT (MAX)	40	mA
COIL RESISTANCE	47 ± 5	OHM
MINIMUM SPL @ 10 CM	85	dBA
RESONANT FREQUENCY	2,400 ± 500	Hz
OPERATING TEMPERATURE	-20 ~ +85	°C
STORAGE TEMPERATURE	-30 ~ +80	°C
HOUSING MATERIAL	NORYL	-
TERMINAL MATERIAL	Sn PLATED BRASS	-
WEIGHT	5	grams

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REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	1/16/2006	
A	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	11/7/2007	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°.
SMT-1324-TW-5V-R.idw

SIZE
A3

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SMT-1324-TW-5V-R

Transducer (Electro-Mech)

Edition
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