

## SMT-0540-T-7-R 5x5mm Transducer

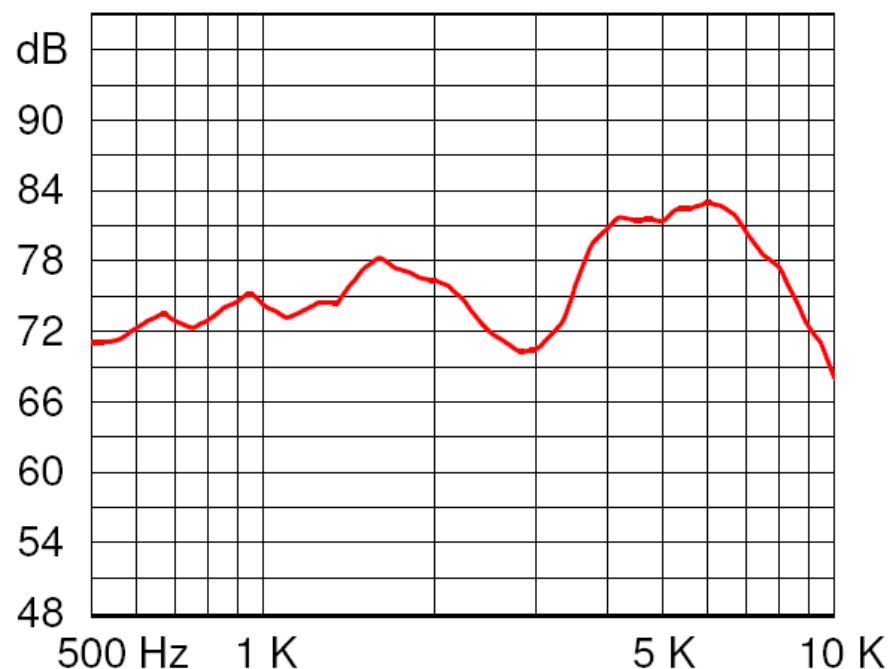
3541 Stop Eight Road • Dayton, Ohio 45414

### Product Overview

- Top-firing electromechanical transducer designed for 2 to 4 Vp-p
- Tiny 5 x 5mm footprint and 2mm height for thinner devices
- 78 dBA minimum output (3Vp-p @ 10 cm) and 4 kHz resonant frequency
- Designed for reflow soldering using a lead-free profile

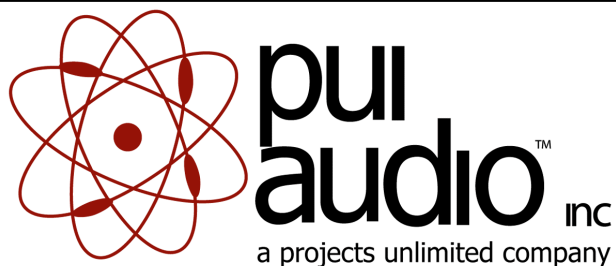


Frequency Response (3 Vp-p @ 0.1 meters)



RoHS COMPLIANT BY DESIGN





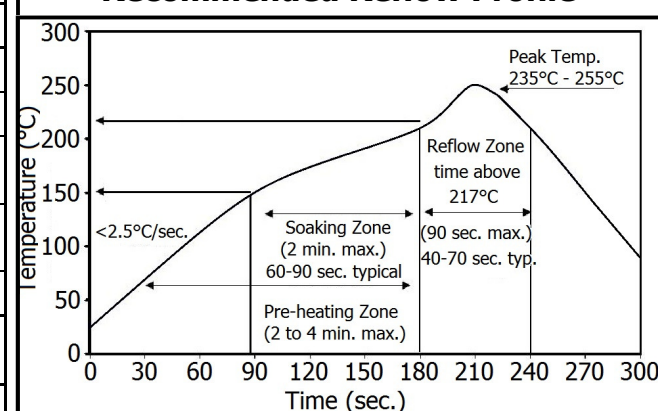
# SMT-0540-T-7-R

## 5x5mm Transducer

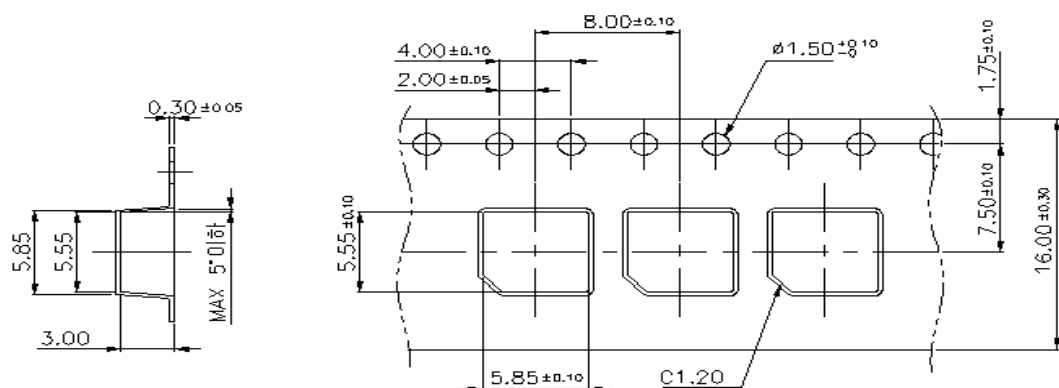
### Mechanical and Environment Testing

Test Description	Test Condition
High Temperature	85°C ( $\pm 2^\circ\text{C}$ ) with random humidity for 96 hours
Low Temperature	-40°C ( $\pm 2^\circ\text{C}$ ) with random humidity for 96 hours
Humidity	25°C to 60°C with 90% to 95% relative humidity for 12 hours, 10 cycles
Vibration	1.53 mm movement modulated at 10-55 Hz in 3 directions for 6 hours
Drop Test	120 cm free fall in six directions, 3 cycles
Temperature Cycle Test	-30°C to 70°C, five 90 minute cycles

### Recommended Reflow Profile

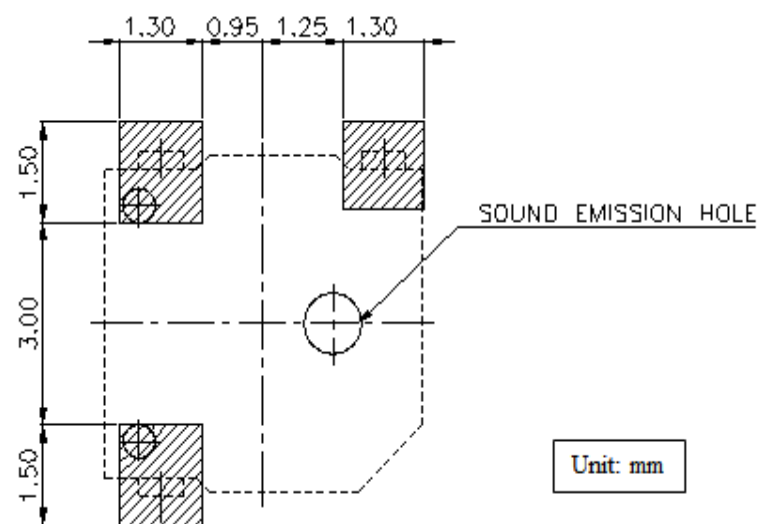


### Tape Dimensions



SMT-0540-T-7-R  
Tape Dimensions  
2,000 PCS/Reel

### Recommended Land Pattern



## SPECIFICATIONS

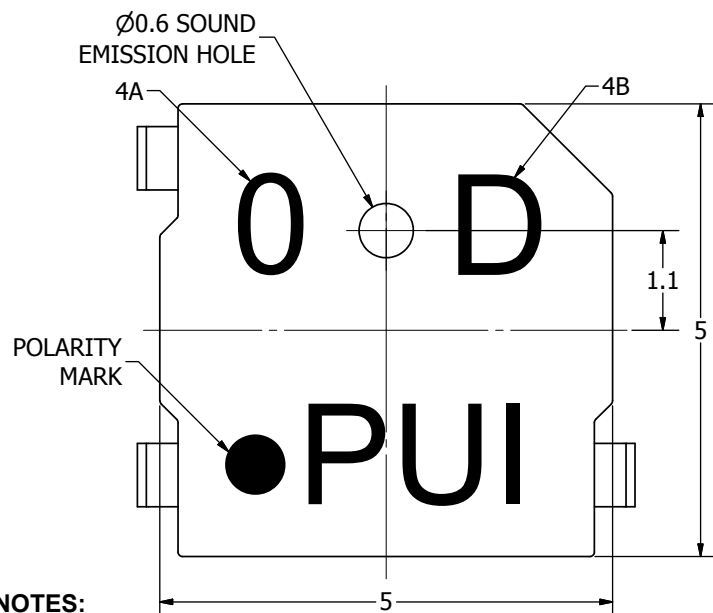
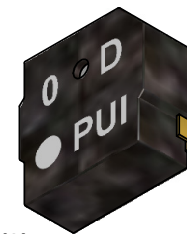
PARAMETERS	VALUES	UNIT
RATED VOLTAGE	3	Vp-p
OPERATING VOLTAGE RANGE	2 ~ 4	Vp-p
RATED CURRENT (MAX)	100	mA
COIL RESISTANCE	$12 \pm 2$	OHM
MINIMUM SPL @ 10 CM	78	dBA
RESONANT FREQUENCY	$4,000 \pm 500$	Hz
OPERATING TEMPERATURE	-30 ~ +70	°C
STORAGE TEMPERATURE	-40 ~ +85	°C
HOUSING MATERIAL	LCP	-
TERMINAL MATERIAL	Au PLATED PHOSPHOR BRONZE	-
WEIGHT	0.25	grams

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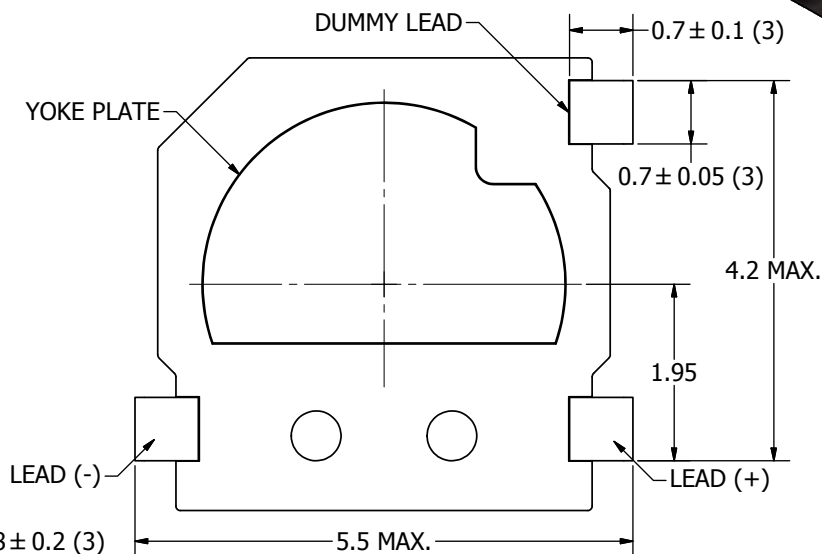
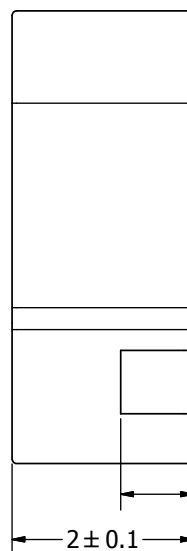
## REVISION HISTORY

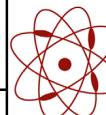
LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	6/18/2008	
A	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	6/4/2010	B.R.



### NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS.
- SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWAL WITHOUT NOTICE.
- THIS PART IS RoHS 2002/95/EC COMPLIANT.
- DATE CODE:  
A. FIRST DIGIT REPRESENTS THE NO. OF THE YEAR.  
B. LAST DIGIT REPRESENTS THE MONTH. (A-JAN~L-DEC.)



UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN MILLIMETERS,  TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°.	SIZE  A3	Designed by	Date	Checked by	Date	Approved by	Date	Drawn Date
		J.D.	6/18/2008	C.W.	6/18/2008	B.R.	6/18/2008	6/4/2010
SMT-0540-T-7-R.idw		 <b>pui audio</b> ™ inc a projects unlimited company			SMT-0540-T-7-R			
					Transducer (Electro-Mech)			

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