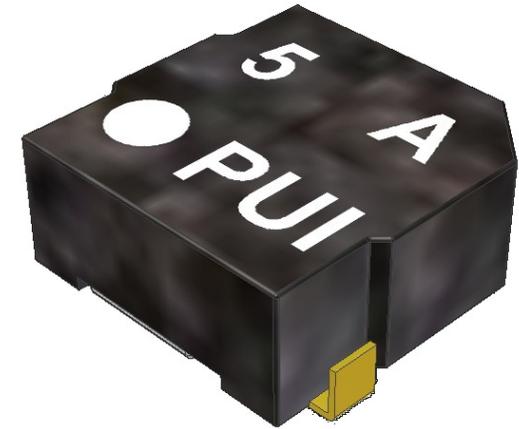


pui
audio™ inc
a projects unlimited company

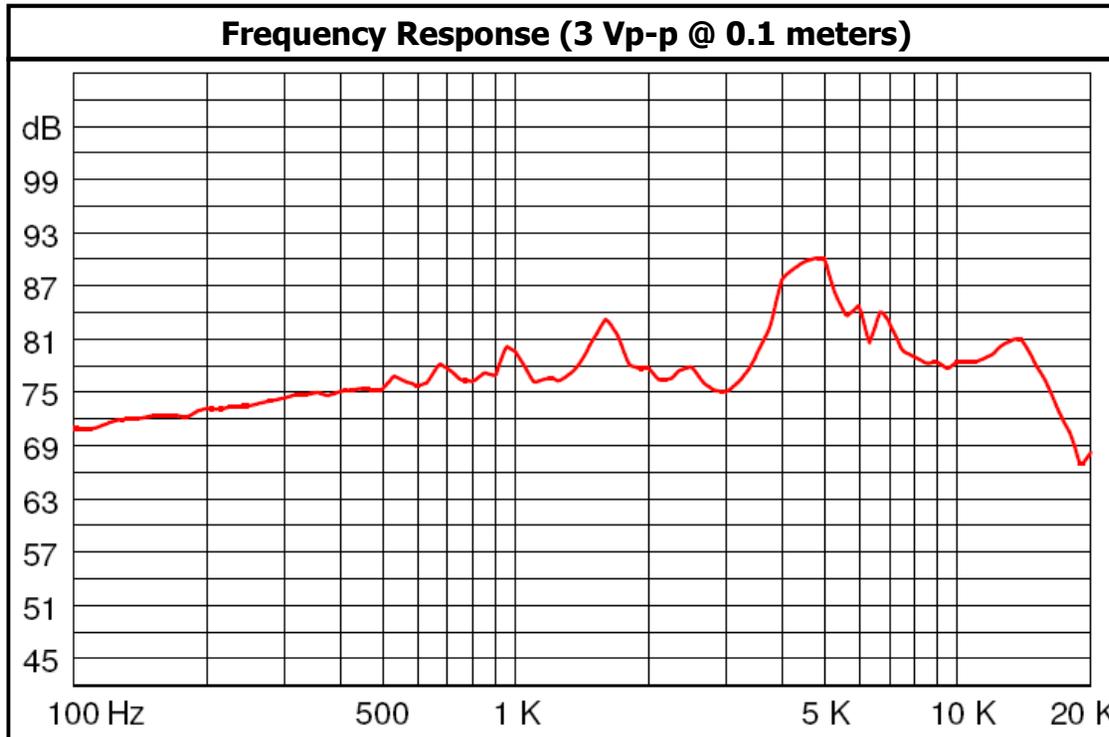
SMT-0540-S-R 5x5mm Transducer



3541 Stop Eight Road • Dayton, Ohio 45414

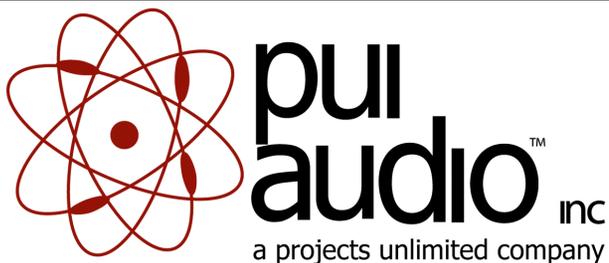
Product Overview

- Side-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



RoHS COMPLIANT





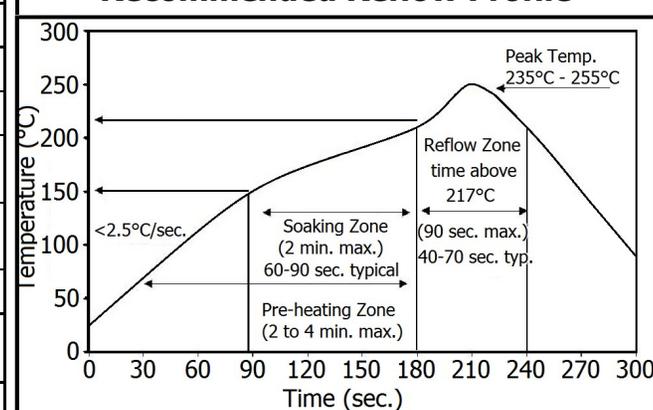
SMT-0540-S-R

5x5mm Transducer

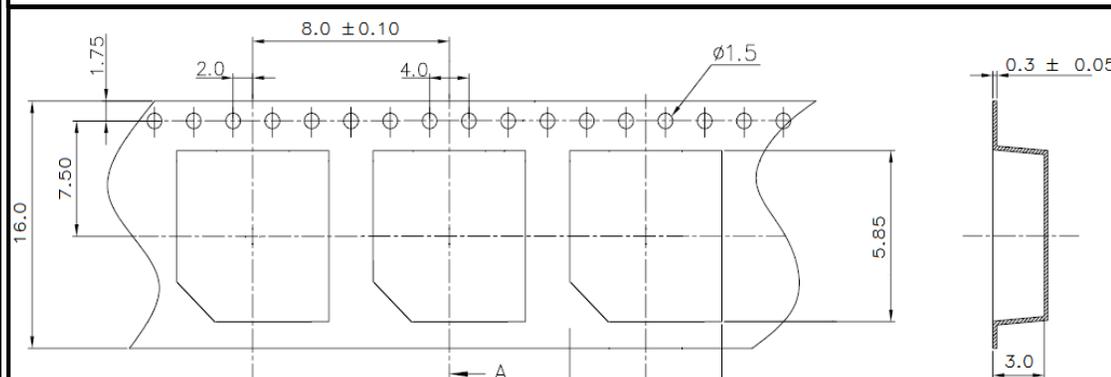
Mechanical and Environment Testing

Test Description	Test Condition
High Temperature	85°C (±2°C) with random humidity for 96 hours
Low Temperature	-40°C (±2°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

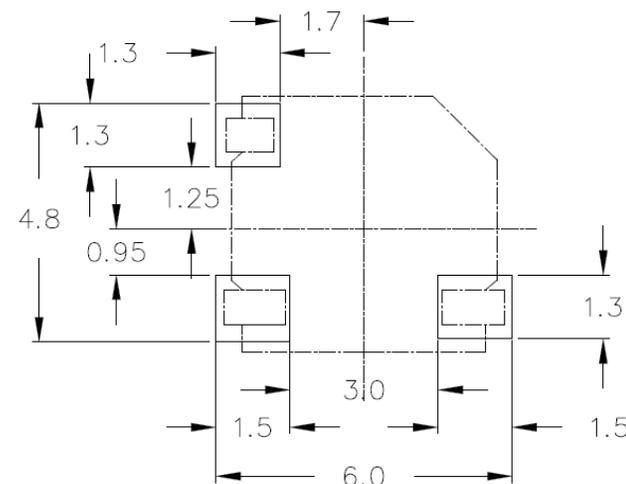


Tape Dimensions



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

Recommended Land Pattern



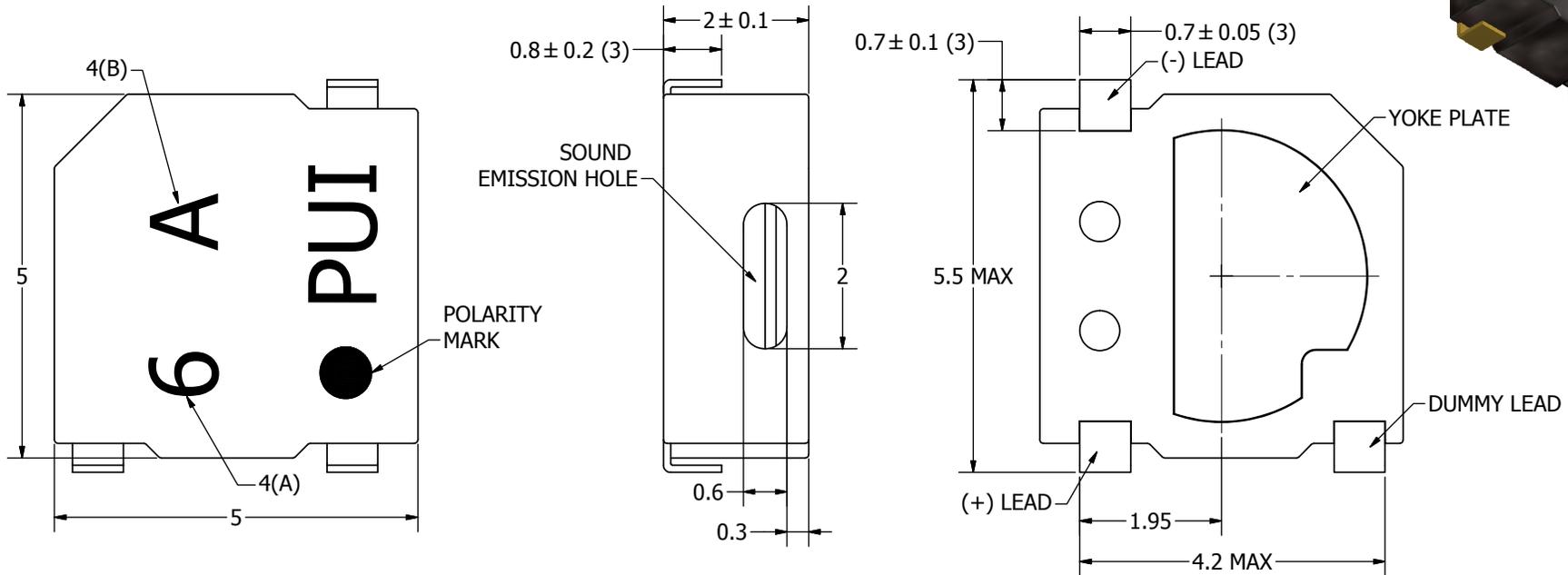
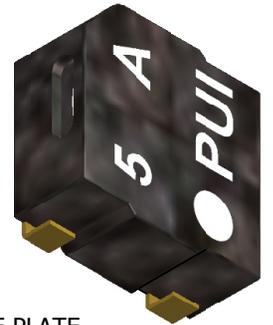
SPECIFICATIONS

PARAMETERS	VALUES	UNITS
RATED VOLTAGE (SQUARE WAVE)	3	Vp-p
OPERATING VOLTAGE RANGE	2 ~ 4	Vp-p
RATED CURRENT (MAX)	100	mA
COIL RESISTANCE	12 ± 2	OHM
MINIMUM SPL @ 10 CM	78	dB
RESONANT FREQUENCY	4,000 ± 500	Hz
OPERATING TEMPERATURE	-30 ~ +70	°C
STORAGE TEMPERATURE	-40 ~ +85	°C
HOUSING MATERIAL	LCP	-
TERMINAL MATERIAL	Au PLATED PHOSPHOR BRONZE	-
WEIGHT	0.2	grams

THIS DOCUMENT CONTAINS DATA PROPRIETARY TO PROJECTS UNLIMITED, INC. ANY USE OR REPRODUCTION, IN ANY FORM, WITHOUT PRIOR WRITTEN PERMISSION OF PROJECTS UNLIMITED, INC. IS PROHIBITED.
©2003, Projects Unlimited Inc.

REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	3/31/2006	
A	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	12/13/2007	B.R.
B	REVISED TOLERANCES ON DIMENSIONS	8/27/2010	B.R.
C	REVISED LOWER HOUSING AND TERMINAL MATERIAL	2/24/2011	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.
4. 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
		B.R.	3/31/2006	B.R.	3/31/2006	E.P.	3/31/2006	12/13/2007
SMT-0540-S-R.idw						SMT-0540-S-R Transducer (Electro-Mech)		
						Edition	Sheet	
						-	1 / 1	