



**THE DATASHEET OF
SMT-0540-T-2-R**





3541 Stop Eight Road • Dayton, Ohio 45414

SMT-0540-T-2-R

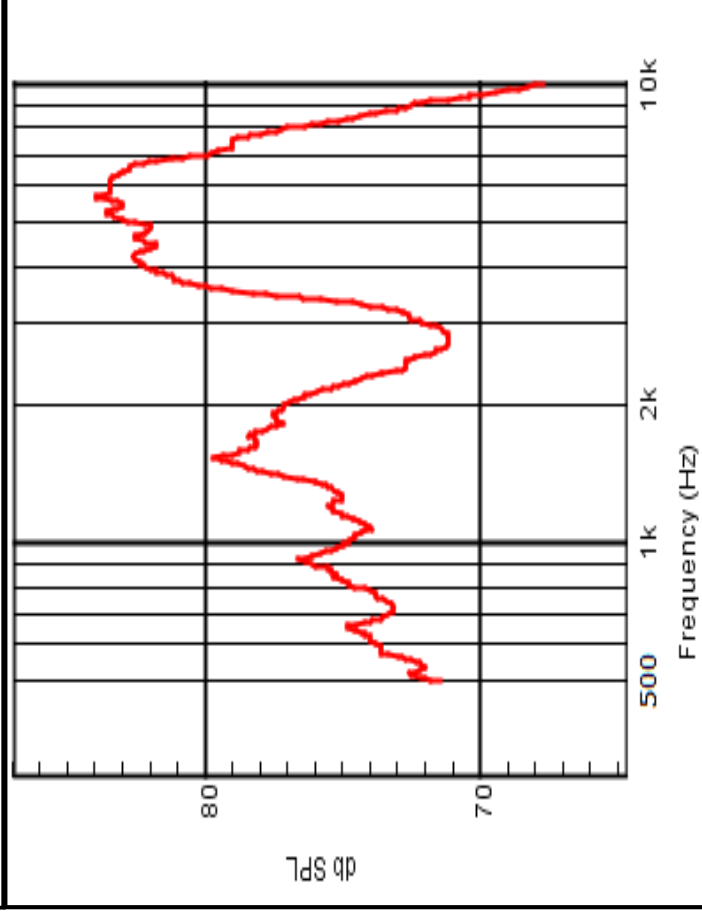
5 x 5mm

Transducer

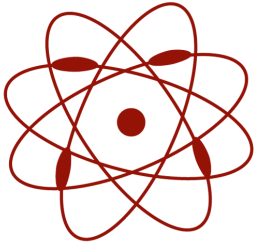
Product Overview

- Top-firing electromechanical transducer designed for 2 to 4 Vp-p
- Tiny 5 x 5mm footprint and 3mm 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)



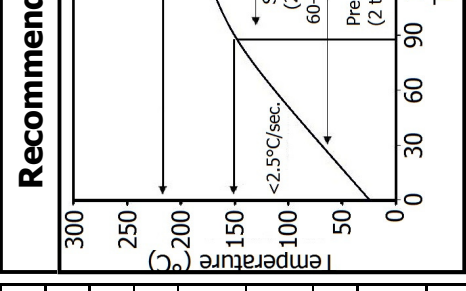
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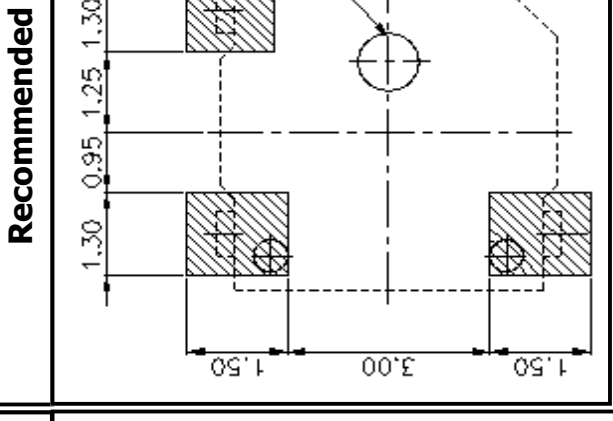
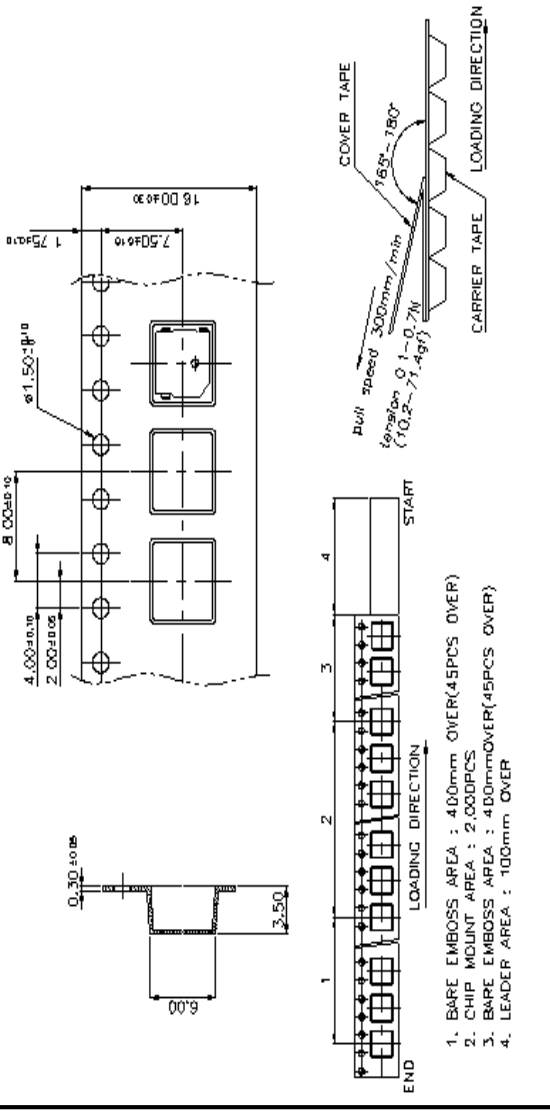
pui audioTM inc
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SMT-0540-T-2-R 5 x 5mm Transducer

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



Tape Dimensions



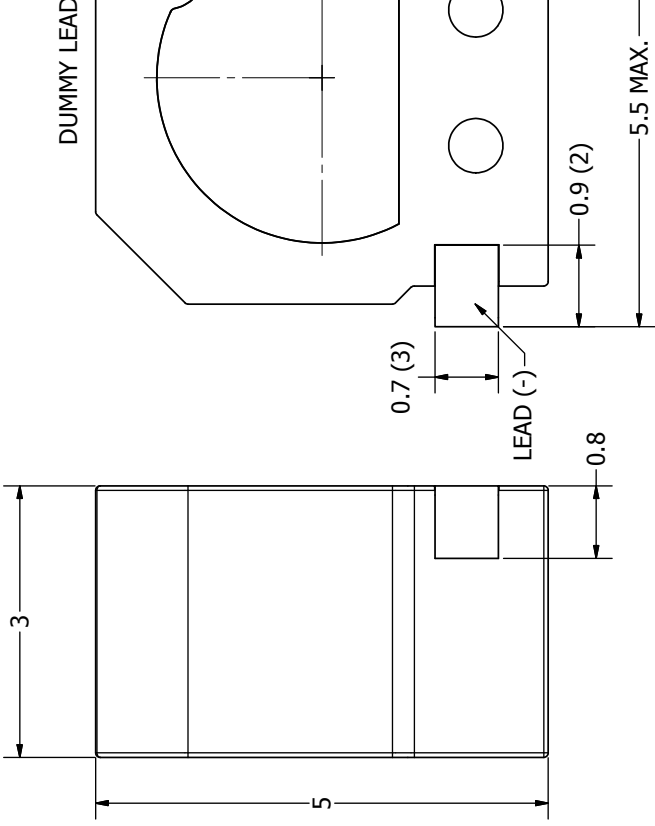
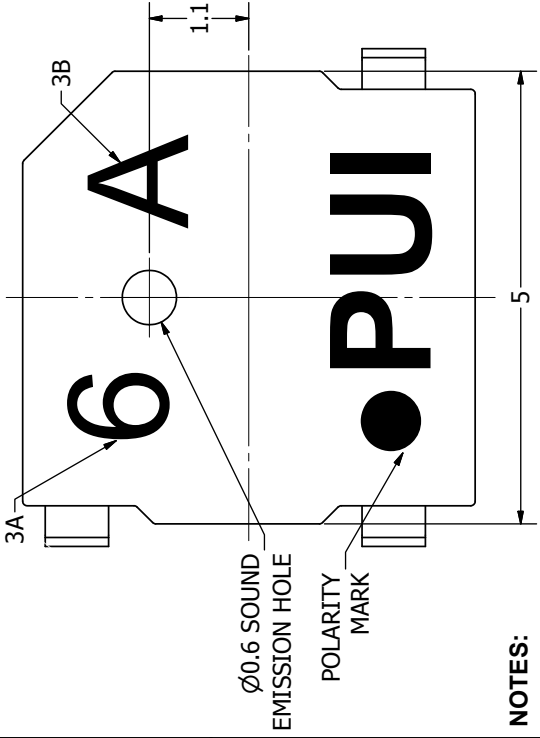
SPECIFICATIONS

PARAMETERS	VALUES	UNIT
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	dBA
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	0.3	grams

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LTR	DESCRIPTION
-	RELEASED FROM ENGINEERING
A	ADDED TERMINAL MATERIAL PLATING
B	UPDATED RoHS AND TOLERANCE
C	UPDATED TERMINAL DIMENSION
D	ADDED REFLOW TEMPERATURE
E	REVISED REFLOW TEMPERATURE
F	REVISED TO INVENTOR 3-D DRAWING TEMPLATE
G	REVISED TERMINAL MATERIAL



NOTES:



- SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWAL WITHOUT NOTICE.
- ALL DIMENSIONS ARE IN MILLIMETERS.
- DATE CODE:
A. FIRST DIGIT REPRESENTS THE NO. OF THE YEAR.
B. LAST DIGIT REPRESENTS THE MONTH. (A-JAN~L-DEC.)
- THIS PART IS RoHS 2002/95/EC COMPLIANT.
- REFLOWABLE TO 260°C

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS, TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°.	SIZE	Designed by	Date	Checked by	Date
	A3	R.A.C.	12/6/2004	E.P.	12/6/2004
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5. REFLOWABLE TO 260°C

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