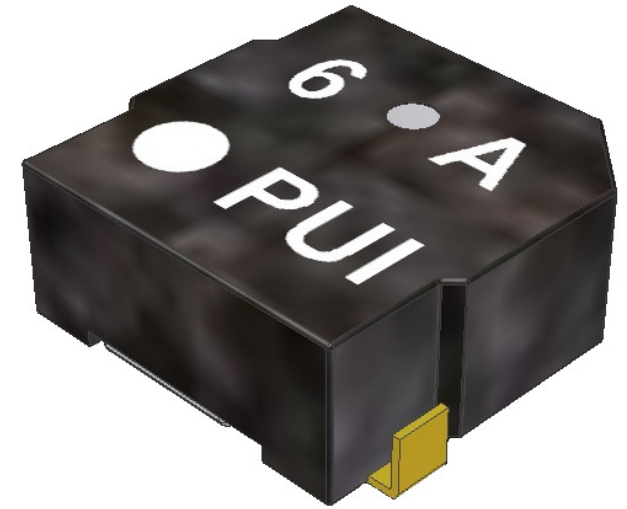


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SMT-0540-T-7-R 5x5mm Transducer

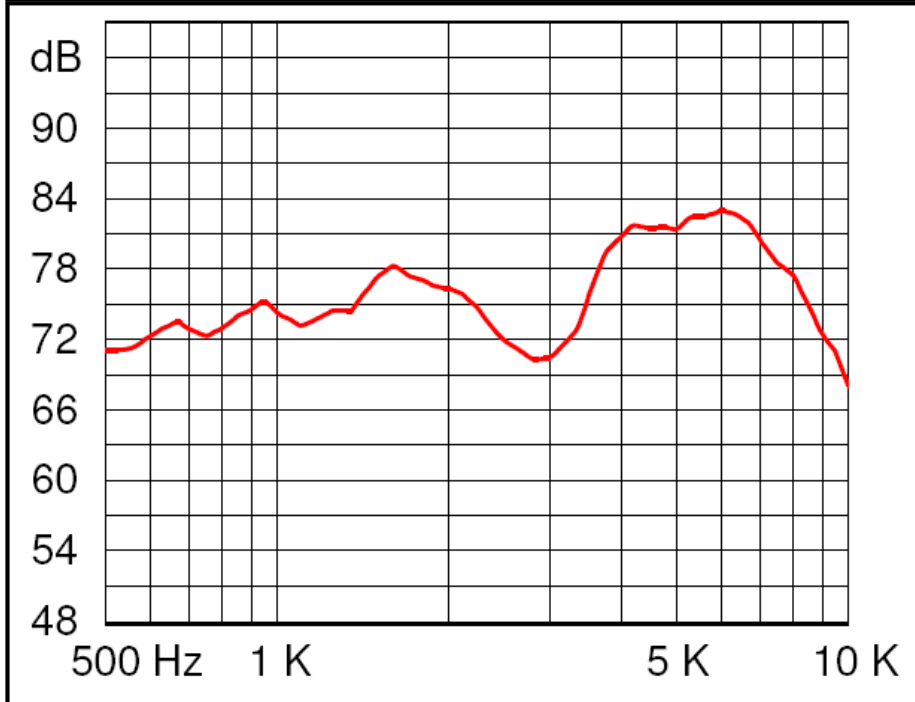


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Product Overview

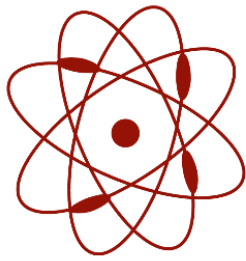
- Top-firing electromechanical transducer designed for 2 to 4 Vp-p
- Tiny 5 x 5mm footprint and 2mm height for thinner devices
- 78 dBA minimum output (3Vp-p @ 10 cm) and 4 kHz resonant frequency
- Designed for reflow soldering using a lead-free profile

Frequency Response (3 Vp-p @ 0.1 meters)



RoHS Compliant





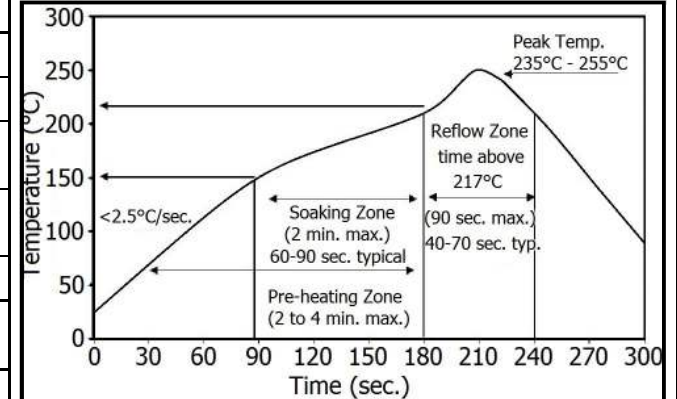
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SMT-0540-T-7-R 5x5mm Transducer

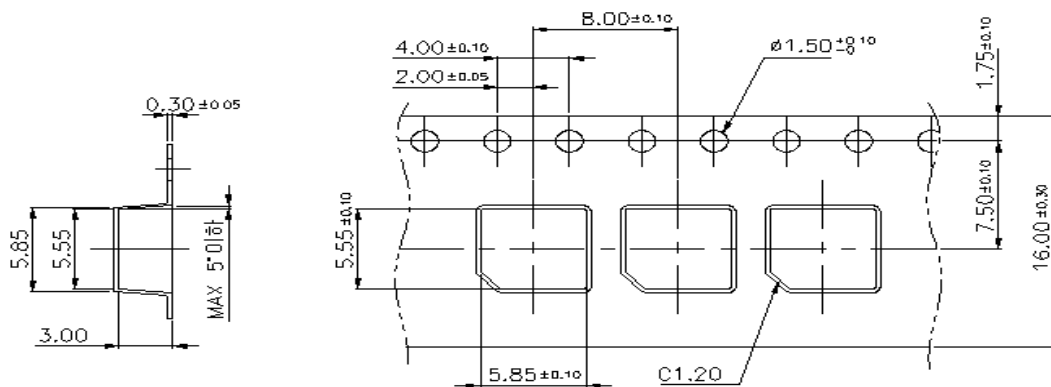
Mechanical and Environment Testing

| 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

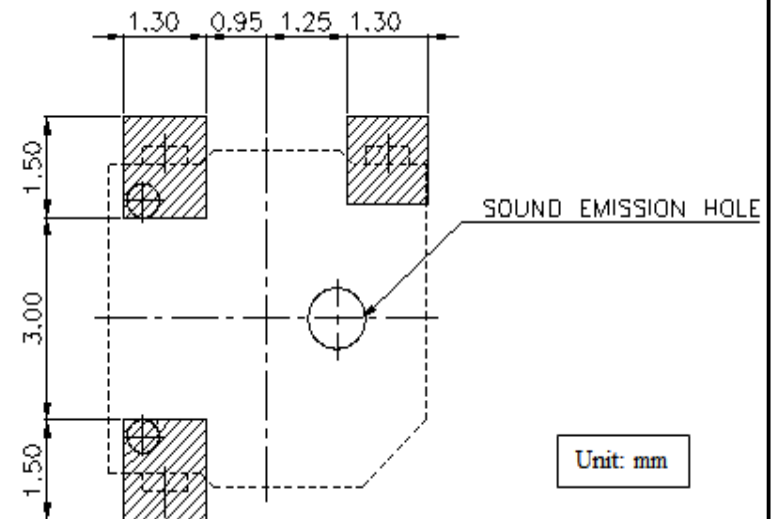


Tape Dimensions



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

Recommended Land Pattern



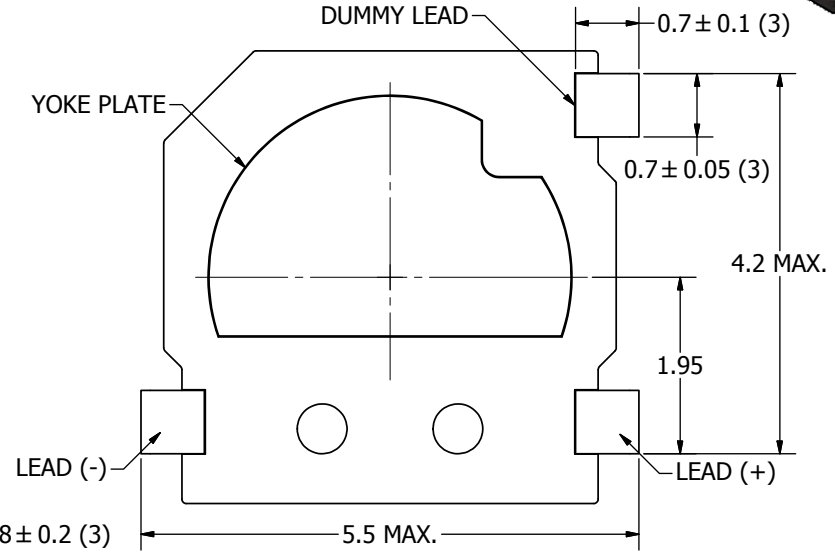
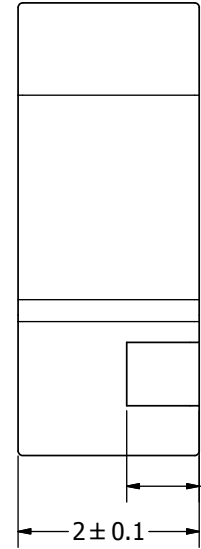
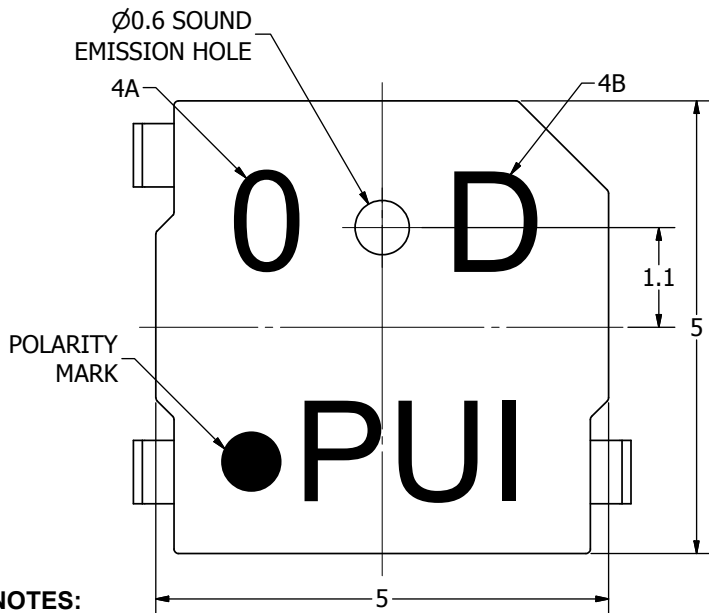
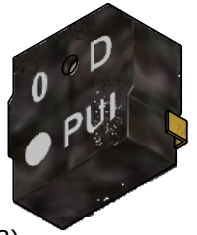
SPECIFICATIONS

| PARAMETERS | VALUES | UNIT |
|-------------------------|------------------------------|-------|
| RATED VOLTAGE | 3 | Vp-p |
| OPERATING VOLTAGE RANGE | 2 ~ 4 | Vp-p |
| RATED CURRENT (MAX) | 100 | mA |
| COIL RESISTANCE | 12 ± 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 | 0.25 | 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 WITHDRAWL 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 | Designed by | Date | Checked by | Date | Approved by | Date | Drawn Date | |
| | A3 | J.D. | 6/18/2008 | C.W. | 6/18/2008 | B.R. | 6/18/2008 | 6/4/2010 | |
| | SMT-0540-T-7-R.idw |  | | | <h2>SMT-0540-T-7-R</h2> | | Transducer (Electro-Mech) | | Edition - |