

Excellent Integrated System Limited

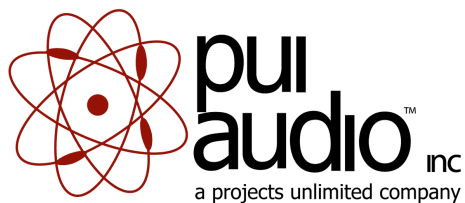
Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

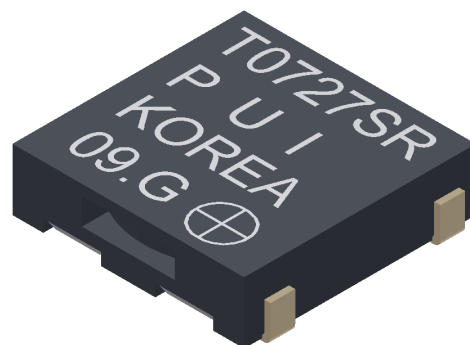
[PUI Audio, Inc.](#)
[SMT-0727-S-R](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



SMT-0727-S-R
7.5 x 7.5mm
Transducer

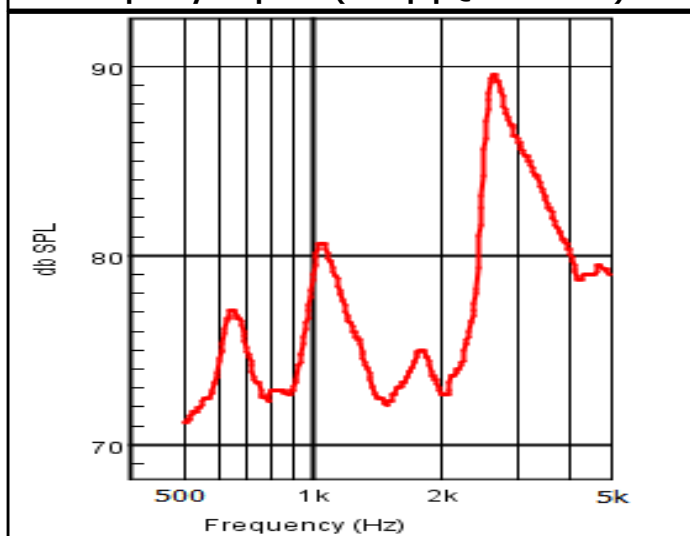


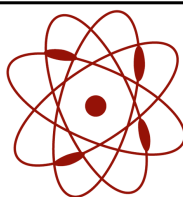
3541 Stop Eight Road • Dayton, Ohio 45414

Product Overview

- Side-firing electromechanical transducer designed for 2 to 5Vp-p
- Small 7.5 x 7.5mm footprint and 2mm height for thin, modern devices
- 85 dBA minimum output (3.6Vp-p @ 10 cm) and 2.7 kHz resonant frequency
- Designed for reflow soldering using a lead-free profile

Frequency Response (3.6 Vp-p @ 0.1 meters)





**pui
audio**™ inc
a projects unlimited company

SMT-0727-S-R

7.5 x 7.5mm

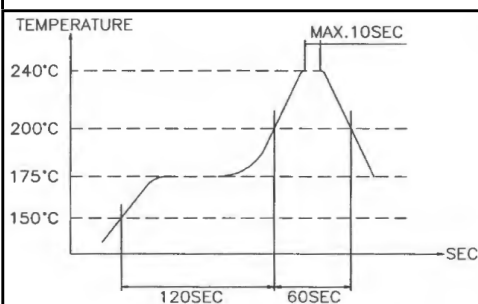
Transducer

Mechanical and Environment Testing

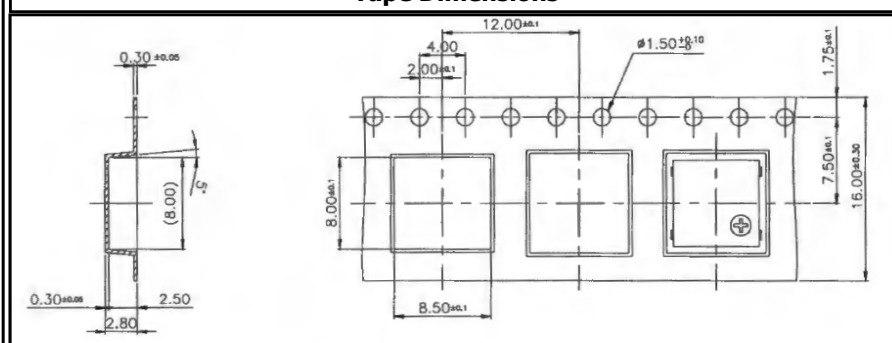
| Test Description | Test Condition |
|------------------------|------------------------------------------------------------------------|
| High Temperature | 85°C (±2°C) with random humidity for 96 hours |
| Low Temperature | -40°C (±2°C) with random humidity for 96 hours |
| Humidity | 25°C to 60°C 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 |

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

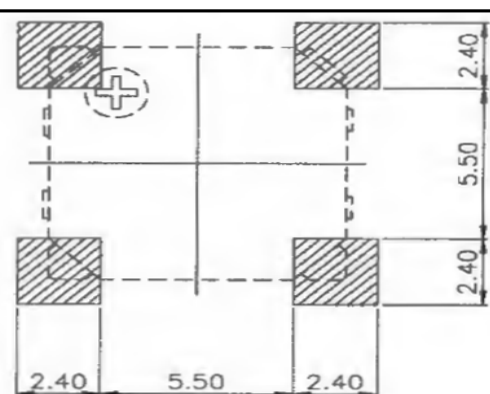
Recommended Reflow Profile



Tape Dimensions



Recommended Land Pattern



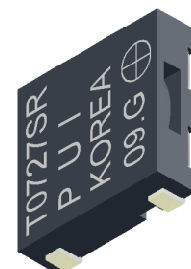
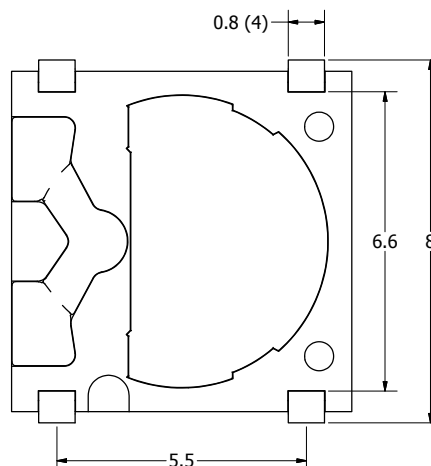
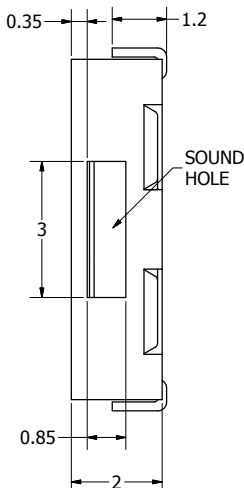
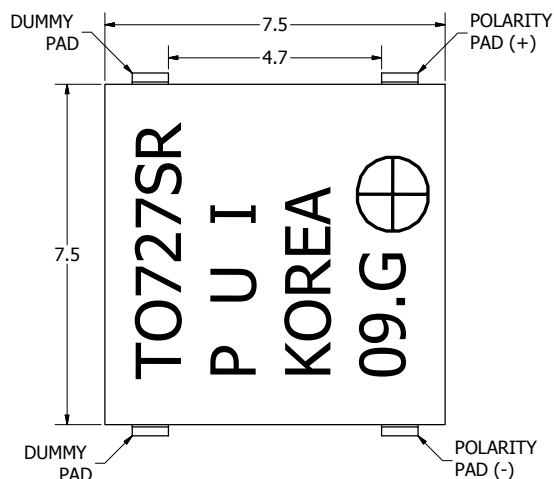
SPECIFICATIONS

| PARAMETERS | VALUES | UNIT |
|-------------------------|------------------------------|-------|
| RATED VOLTAGE | 3.6 | Vp-p |
| OPERATING VOLTAGE RANGE | 2 ~ 5 | Vp-p |
| RATED CURRENT (MAX) | 120 | mA |
| COIL RESISTANCE | 12 ± 2 | OHM |
| MINIMUM SPL @ 10 CM | 85 | dBA |
| RESONANT FREQUENCY | 2,700 ± 500 | Hz |
| OPERATING TEMPERATURE | -30 ~ +70 | °C |
| STORAGE TEMPERATURE | -40 ~ +85 | °C |
| HOUSING MATERIAL | LCP | - |
| TERMINAL MATERIAL | Sn PLATED PHOSPHOR BRONZE | - |
| WEIGHT | 0.33 | 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 | 9/15/2005 | |
| A | REVISED TO INVENTOR 3-D DRAWING TEMPLATE | 4/29/2010 | 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.

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.A.F. | 9/15/2005 | E.P. | 9/15/2005 | B.R. | 9/15/2005 | 4/30/2010 |
|  SMT-0727-S-R | | | | | | |
| Transducer (Electro-Mech) | | | | | | |
| Edition - | | | | | | Sheet 1 / 1 |

SMT-0727-S-R.idw