pui audio™ inc
a projects unlimited company
3541 Stop Eight Road • Dayton, Ohio 45414

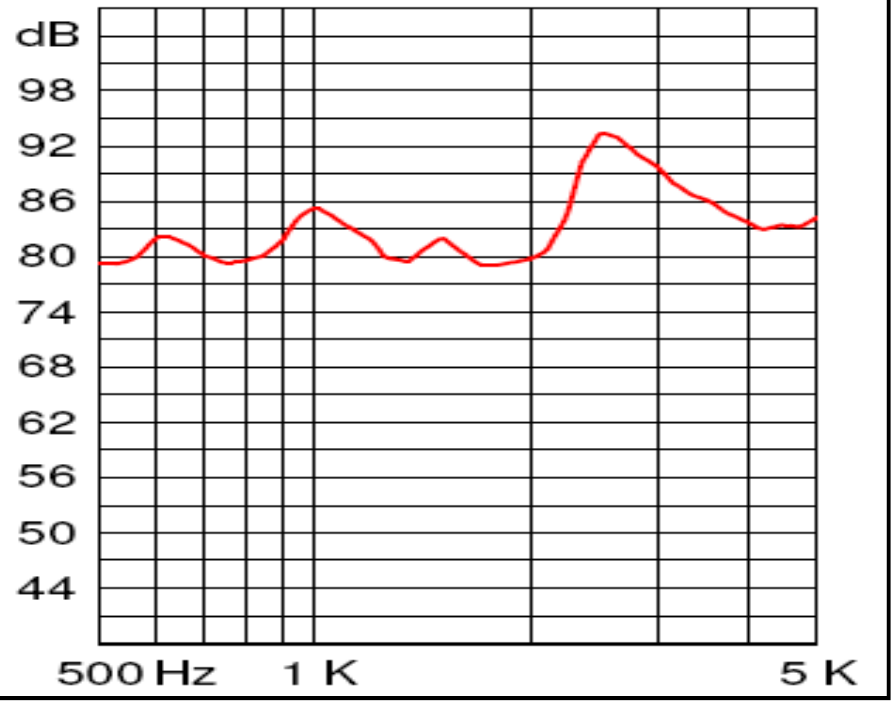
SMT-0825-S-4-R
8.5x8.5mm
Transducer



Product Overview

- Side-firing electromechanical transducer designed for 2.5 to 4.5 Vp-p
- Small 8.5 x 8.5mm footprint and 3mm height for thin, modern devices
- 85 dBA minimum output (3.6Vp-p @ 10 cm) and 2.5kHz resonant frequency
- Designed for reflow soldering using a lead-free profile

Frequency Response (3.6 Vp-p @ 0.1 meters)

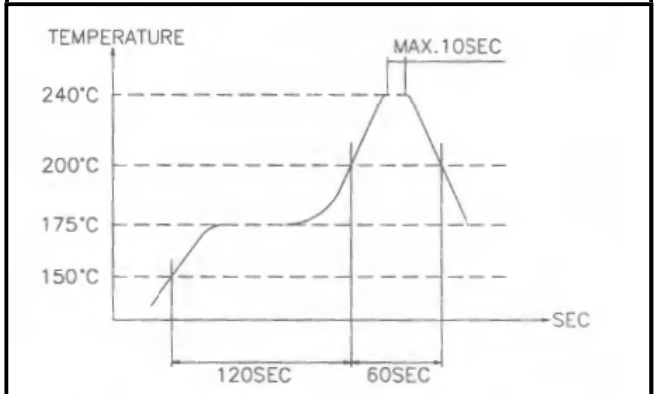


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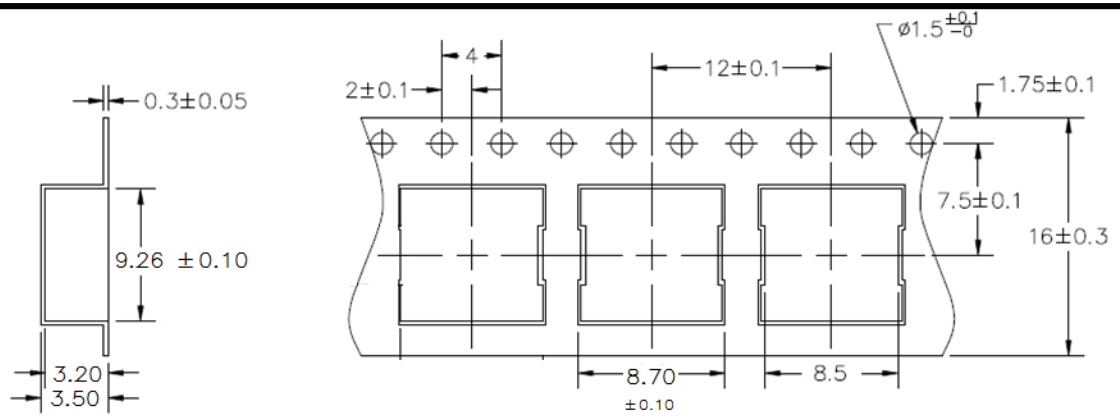
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Transducer

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

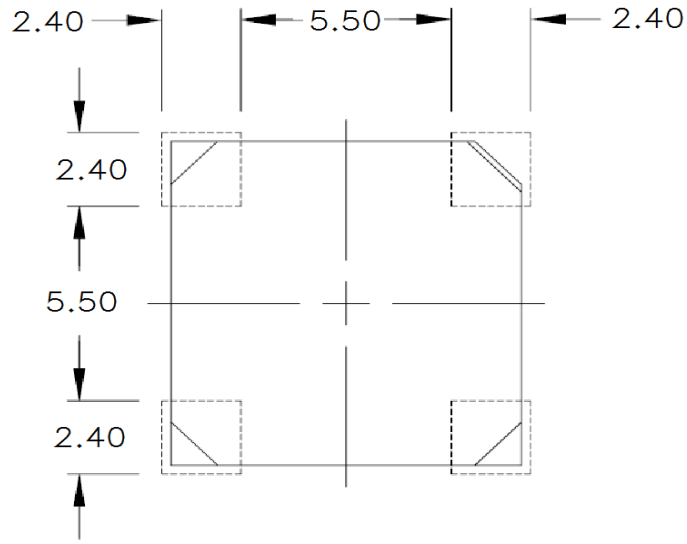


Tape Dimensions



SMT-0825-S-4-R
Tape Dimensions
2,000 PCS/Reel

Recommended Land Pattern



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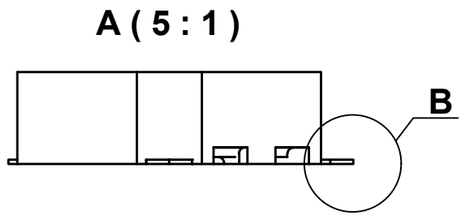
SPECIFICATIONS

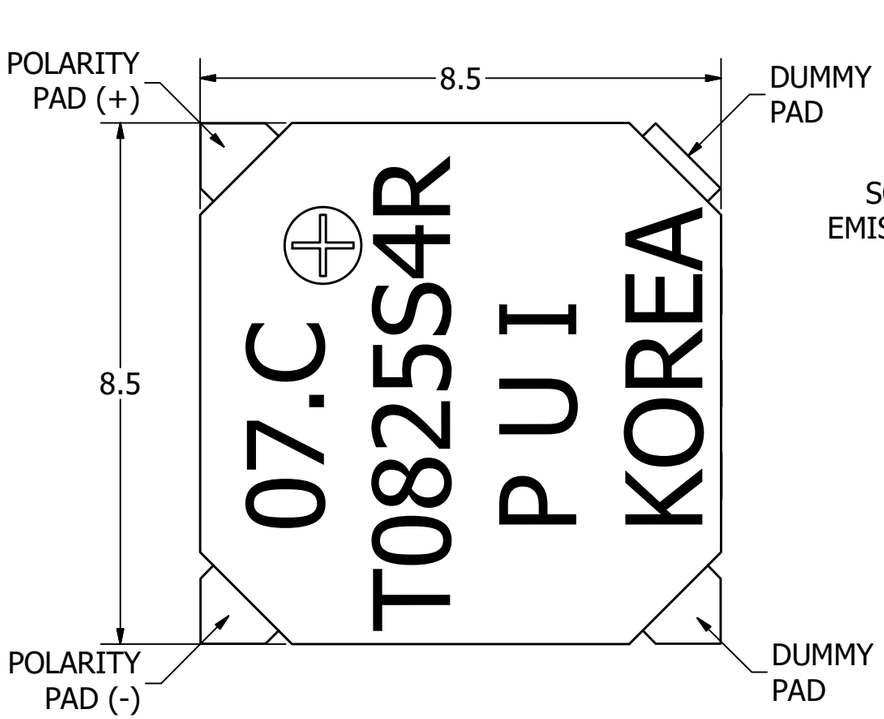
PARAMETERS	VALUES	UNIT
RATED VOLTAGE	3.6	Vp-p
OPERATING VOLTAGE RANGE	2.5 ~ 4.5	Vp-p
RATED CURRENT (MAX)	90	mA
COIL RESISTANCE	15 ± 3	OHM
MINIMUM SPL @ 10 CM	85	dBA
RESONANT FREQUENCY	2,500 ± 500	Hz
OPERATING TEMPERATURE	-30 ~ +70	°C
STORAGE TEMPERATURE	-40 ~ +85	°C
HOUSING MATERIAL	LCP	-
TERMINAL MATERIAL	Sn PLATED PHOSPHOR BRONZE	-
WEIGHT	0.4	grams

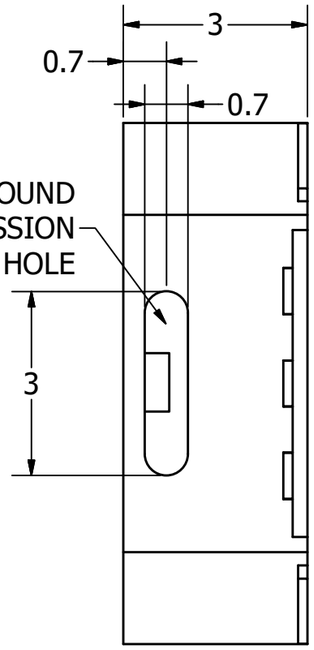
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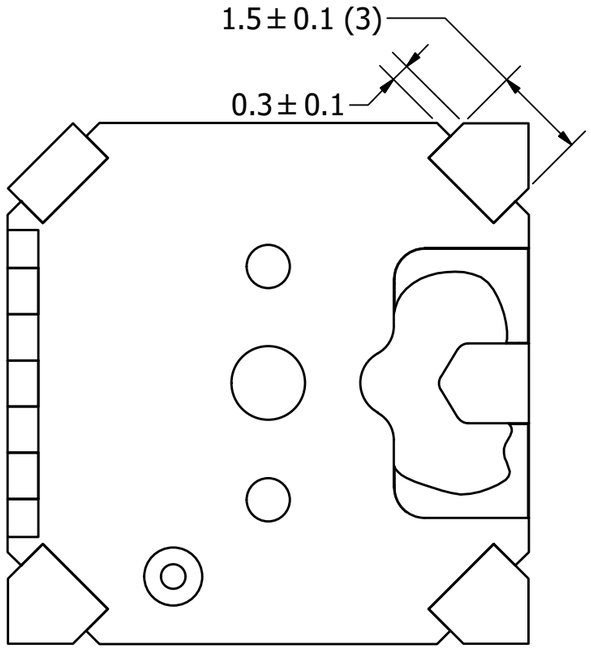
REVISION HISTORY

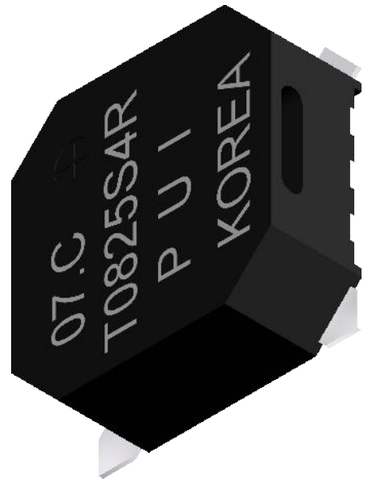
LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	4/1/2005	
A	ADDED RoHS COMPLIANCE NOTE	8/10/2005	
B	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	4/30/2010	B.R.
C	ADDED REFLOW NOTE	1/25/2019	M.L.

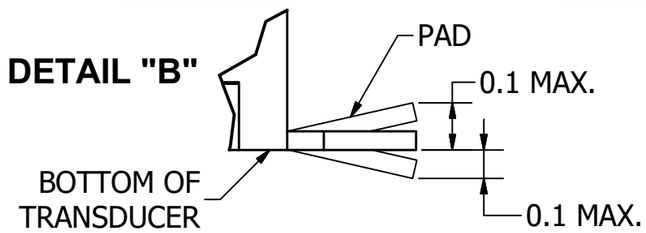












NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWL WITHOUT NOTICE.
3. THIS PART IS RoHS 2011/65/EU COMPLIANT.
4. REFLOW ACCEPTABLE. MAX TEMP 260C, 10sec OR LESS.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS,
TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°.

SIZE A3

SMT-0825-S-4-R.idw

Designed by	Date	Checked by	Date	Approved by	Date	Drawn Date
G.V.	4/1/2005	E.P.	4/1/2005	R.W.	4/1/2005	4/30/2010

pui audio inc

SMT-0825-S-4-R

Transducer (Electro-Mech)

Edition -

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