

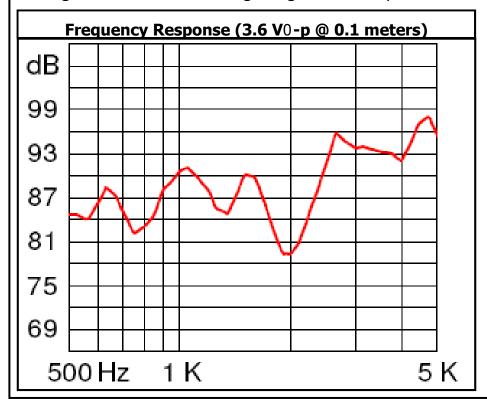
SMT-0825-T-R 8.5x8.5mm Transducer

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3541 Stop Eight Road • Dayton, Ohio 45414

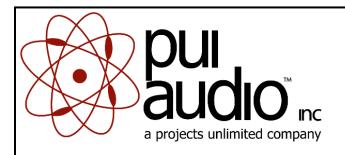
Product Overview

- Top-firing electromechanical transducer designed for 2.5 to 4.5 V
- Small 8.5 x 8.5mm footprint and 4mm height for thin, modern devices
- 87 dBA minimum output (3.6V @ 10 cm) and 2.5kHz resonant frequency
- Designed for reflow soldering using a lead-free profile



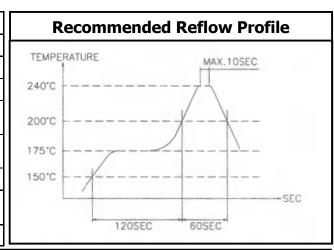


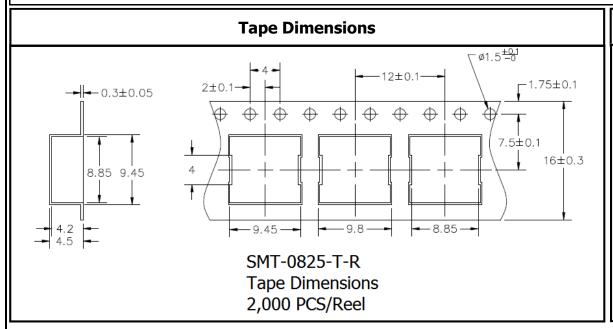


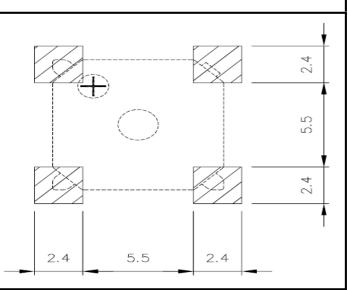


SMT-0825-T-R 8.5x8.5mm Transducer

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		







Recommended Land Pattern

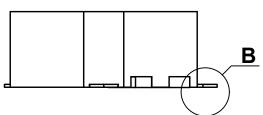
SPECIFICATIONS				
PARAMETERS	VALUES	UNITS		
RATED VOLTAGE	3.6	V0-p		
OPERATING VOLTAGE RANGE	2.5 ~ 4.5	V0-p		
RATED CURRENT (MAX)	90	mA		
COIL RESISTANCE	15 ± 3	OHM		
MINIMUM SPL @ 10 CM	87	dBA		
RESONANT FREQUENCY	2,500 ± 500	Hz		
OPERATING TEMPERATURE	-30 ~ +70	°C		
STORAGE TEMPERATURE	-40 ~ +85	°C		
HOUSING MATERIAL	LCP	-		
TERMINAL MATERIAL	Sn PLATED PBS	-		
WEIGHT	0.42	grams		
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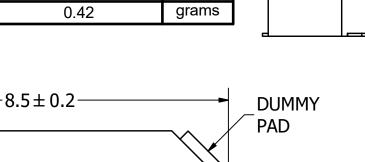
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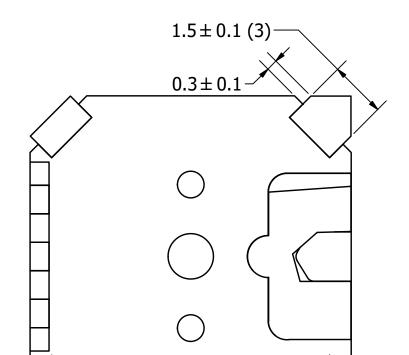
REVISION HISTORY				
LTR	DESCRIPTION	DATE	APPROVED	
-	RELEASED FROM ENGINEERING	1/4/2005		
Α	CHANGED MATERIAL & TERMINAL MATERIAL	3/9/2005	G.V.	
В	REMOVED LEAD FREE ADDED RoHS NOTE	8/10/2005		
С	ADDED RESONANT FREQ. TOLERANCE	5/16/2007	R.W.	
D	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	5/3/2010	B.R.	
E	REVISED VOLTAGE SPECIFICATIONS FROM Vp-p TO V0-p	8/31/2020	M.V.	





 4 ± 0.1







POLARITY PAD (+)

8.5 ± 0.2

A C DUMMY PAD

8.5 ± 0.2

POLARITY PAD (-)

POLARITY PAD (-)

POLARITY PAD (-)

POLARITY PAD (-)

BOTTOM OF TRANSDUCER

PAD 0.1 MAX.

NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS.
- 2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWL 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°.

SMT-0825-T-R.idw

pul audio no

Date

1/4/2005

Checked by

 \bigcirc

Designed by

R.A.C.

Date Approved by Date Drawn Date

R.W. 1/4/2005 5/3/2010

SMT-0825-T-R

Transducer (Electro-Mech) -

Edition Sheet
- 1 / 1