SMT-0927-T-2-R
9mm
Transducer

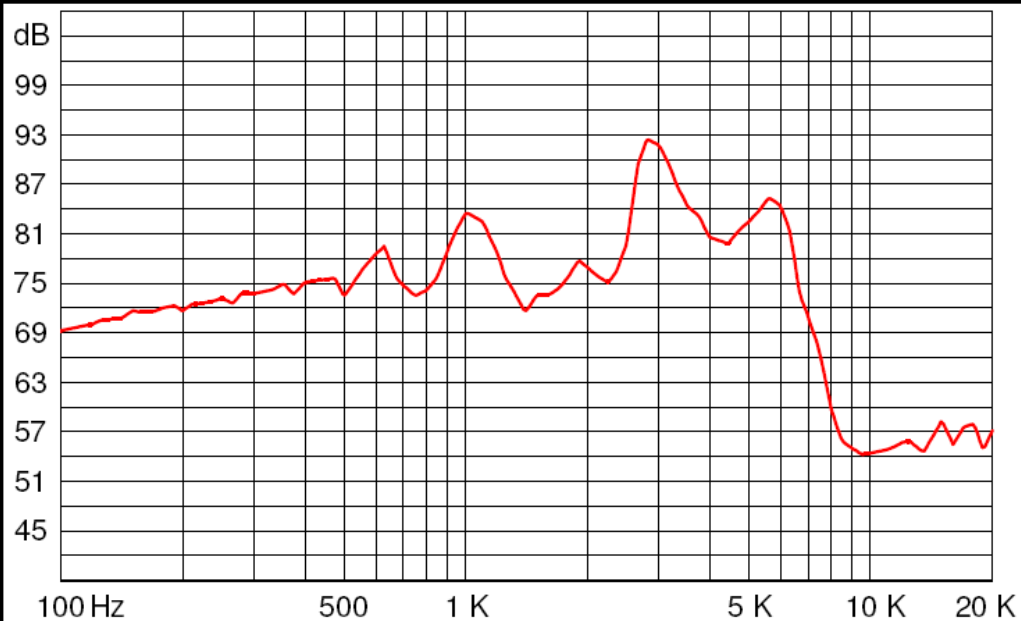**pui audio** inc
a projects unlimited company

3541 Stop Eight Road • Dayton, Ohio 45414

Product Overview

• Top-firing electromechanical transducer designed for 2 to 4 Vp-p

• Small 9mm diameter footprint and 4.5mm height for thin, modern devices

• 85 dBA minimum output (3Vp-p @ 10 cm) and 2,730 Hz resonant frequency

• Designed for reflow soldering using a lead-free profile

Frequency Response (3 Vp-p @ 0.1 meters)

dB	
99	
93	
87	
81	
75	
69	
63	
57	
51	
45	
	100 Hz 500 1 K 5 K 10 K 20 K

cfsi

RoHS Compliant

REACH COMPLIANCE

SMT-0927-T-2-R
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Mechanical and Environment Testing

| Test Description	Test Condition
High Temperature	80°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 55°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
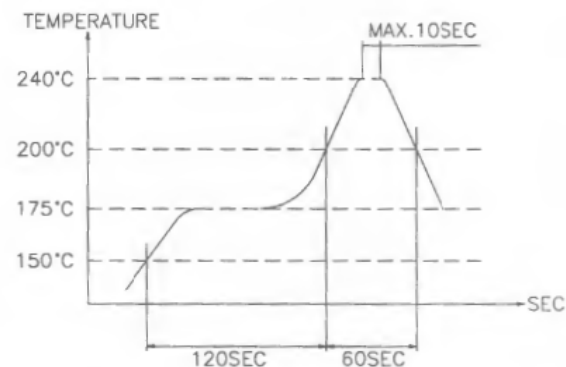
Tape Dimensions
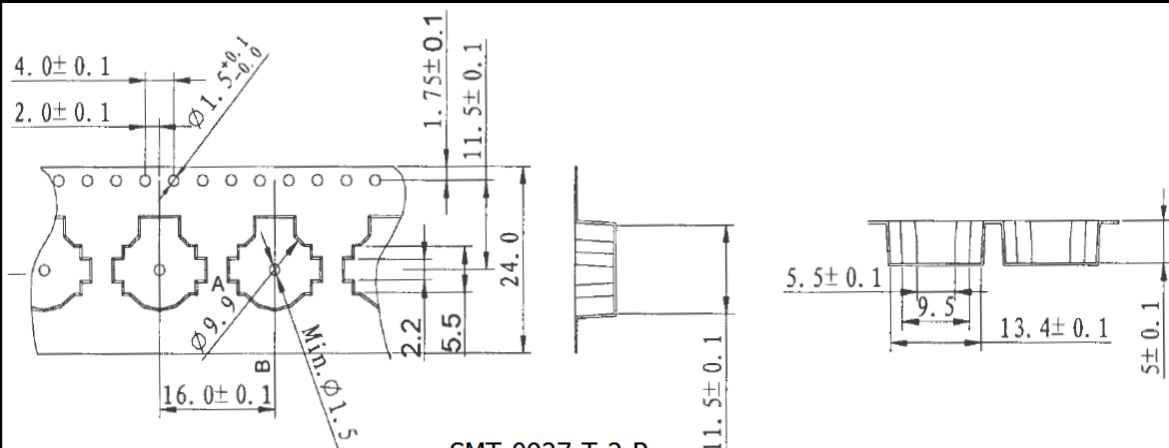
SMT-0927-T-2-R
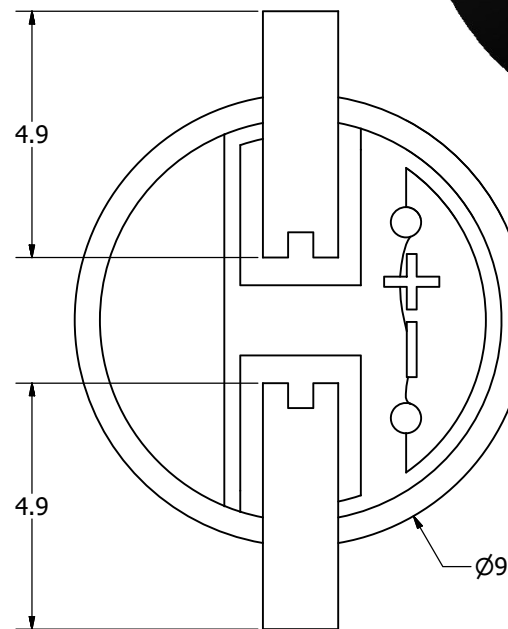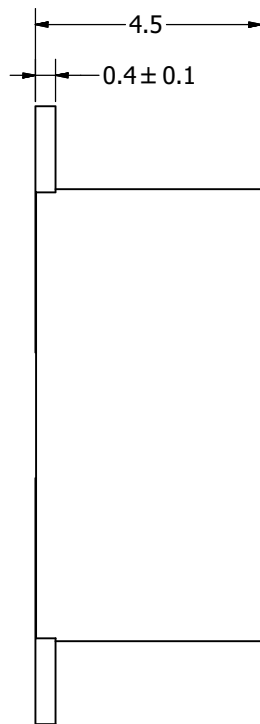Tape Dimensions
800 PCS/Reel

Recommended Land Pattern
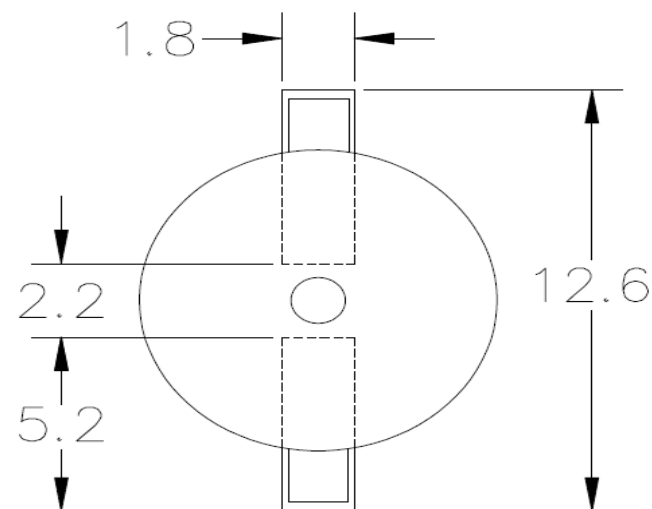
SPECIFICATIONS

PARAMETERS	VALUES	UNIT
RATED VOLTAGE	3	Vp-p
OPERATING VOLTAGE RANGE	2 - 4	Vp-p
RATED CURRENT (MAX)	80	mA
COIL RESISTANCE	16 ± 3	OHM
MINIMUM SPL @ 10 CM	85	dBA
RESONANT FREQUENCY	2730 ± 200	Hz
OPERATING TEMPERATURE	-40 ~ +85	°C
STORAGE TEMPERATURE	-40 ~ +85	°C
HOUSING MATERIAL	PPS	-
TERMINAL MATERIAL	Au PLATED BRASS	-
WEIGHT	0.8	grams
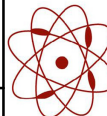
REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	6/16/2011	

Ø1.6 SOUND EMISSION HOLE

1.5 ± 0.1

12.3

4.5

0.4 ± 0.1

4.9

4.9

Ø9
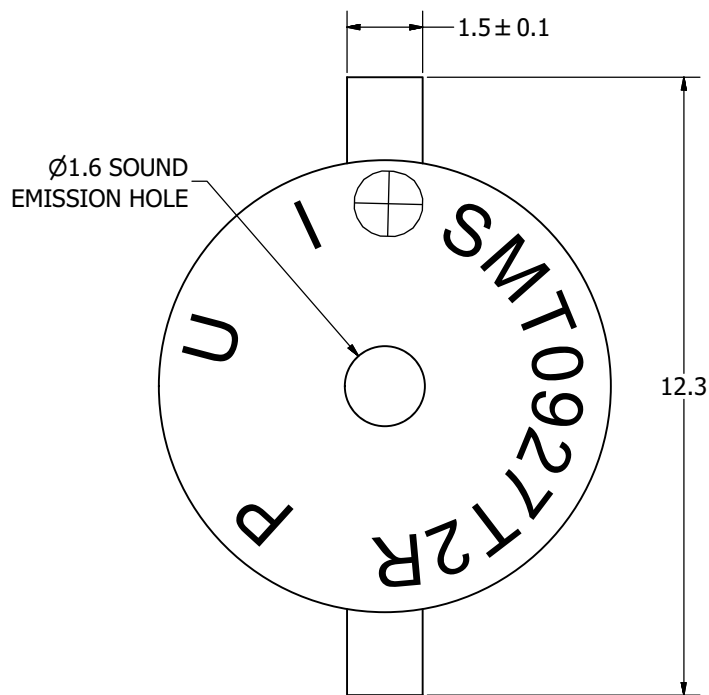
NOTES:

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°.	SIZE A3	Designed by J.D.	Date 6/16/2011	Checked by M.L.	Date 6/28/2011	Approved by B.R.	Date 6/28/2011	Drawn Date 6/16/2011

pui audio inc
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SMT-0927-T-2-R.idw

Transducer (Electro-Mech)

SMT-0927-T-2-R

Edition -

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