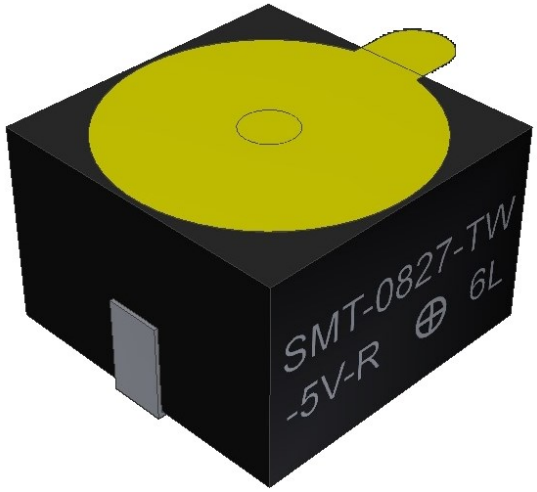
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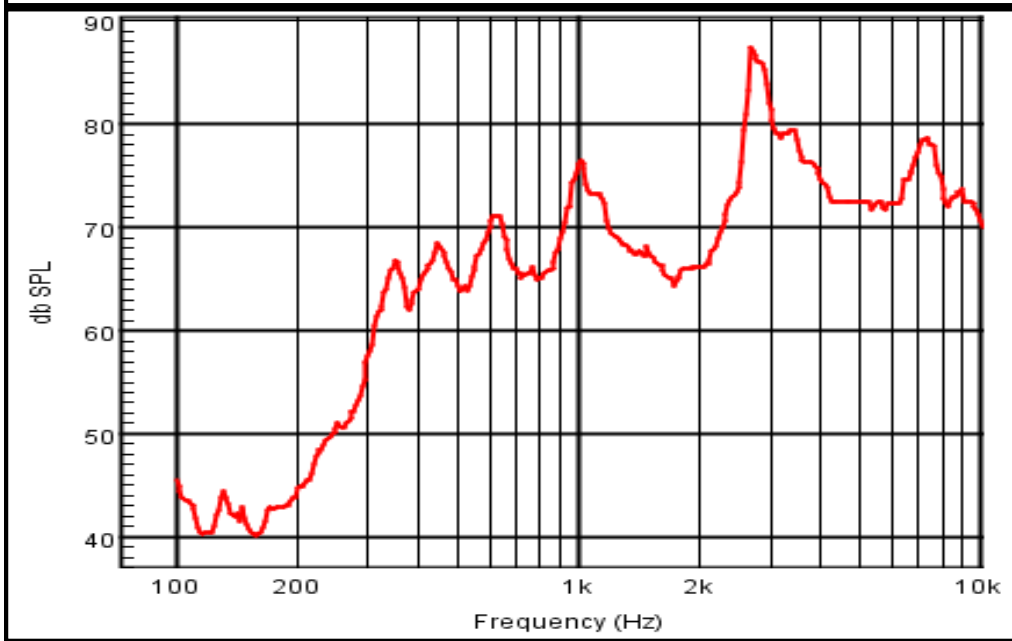
SMT-0827-TW-5V-R
8.5 x 8.5mm
Transducer



Product Overview

- Top-firing electromechanical transducer designed for 3 to 8 Vp-p
- Small 8.5 x 8.5mm footprint and 6mm height for modern devices
- 85 dBA minimum output (5p-p @ 10 cm) and 2,730 Hz resonant frequency
- Designed for reflow soldering using a lead-free profile
- Wash tab preserves performance

Frequency Response (5 Vp-p @ 0.1 meters)

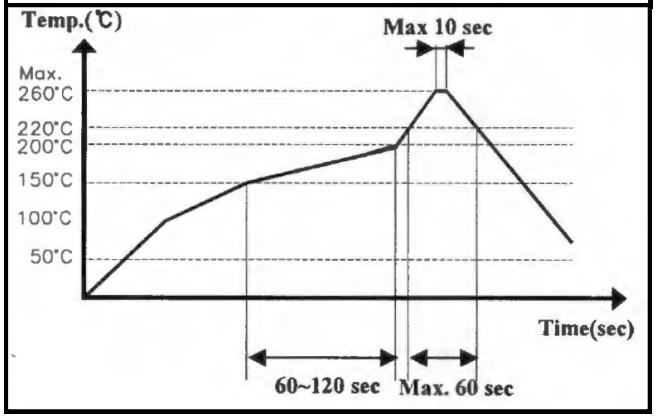


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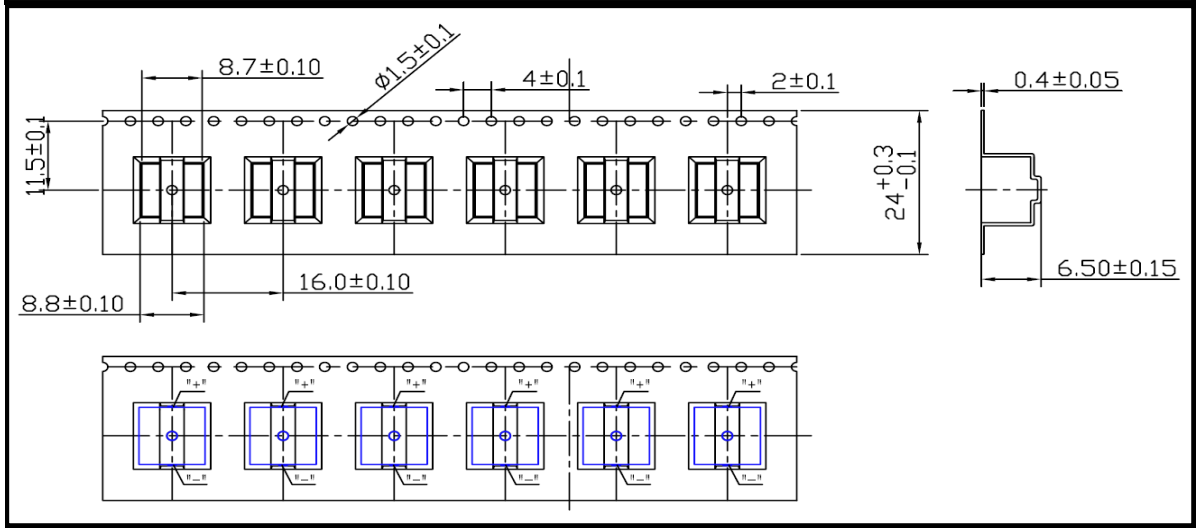
SMT-0827-TW-5V-R
8.5 x 8.5mm
Transducer

Mechanical and Environment Testing	
Test Description	**Test Condition**
High Temperature	95°C (±2°C) with random humidity for 96 hours
Low Temperature	-50°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.	

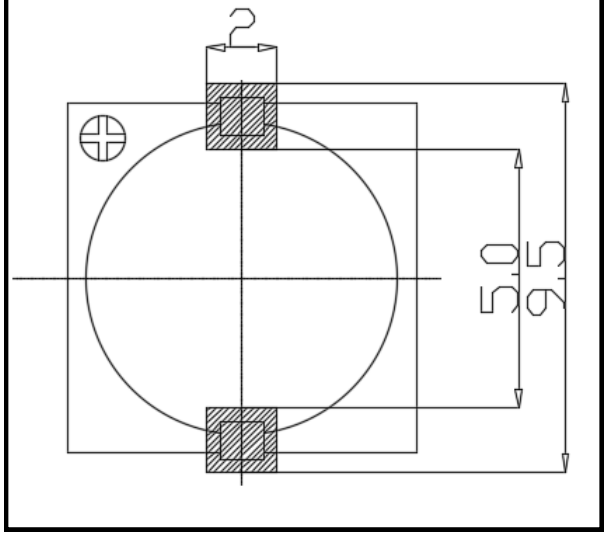
Recommended Reflow Profile



Tape Dimensions



Recommended Land Pattern



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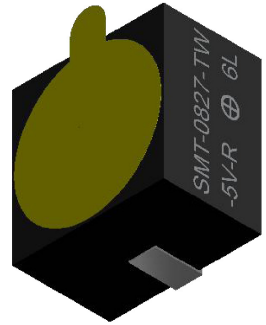
SPECIFICATIONS

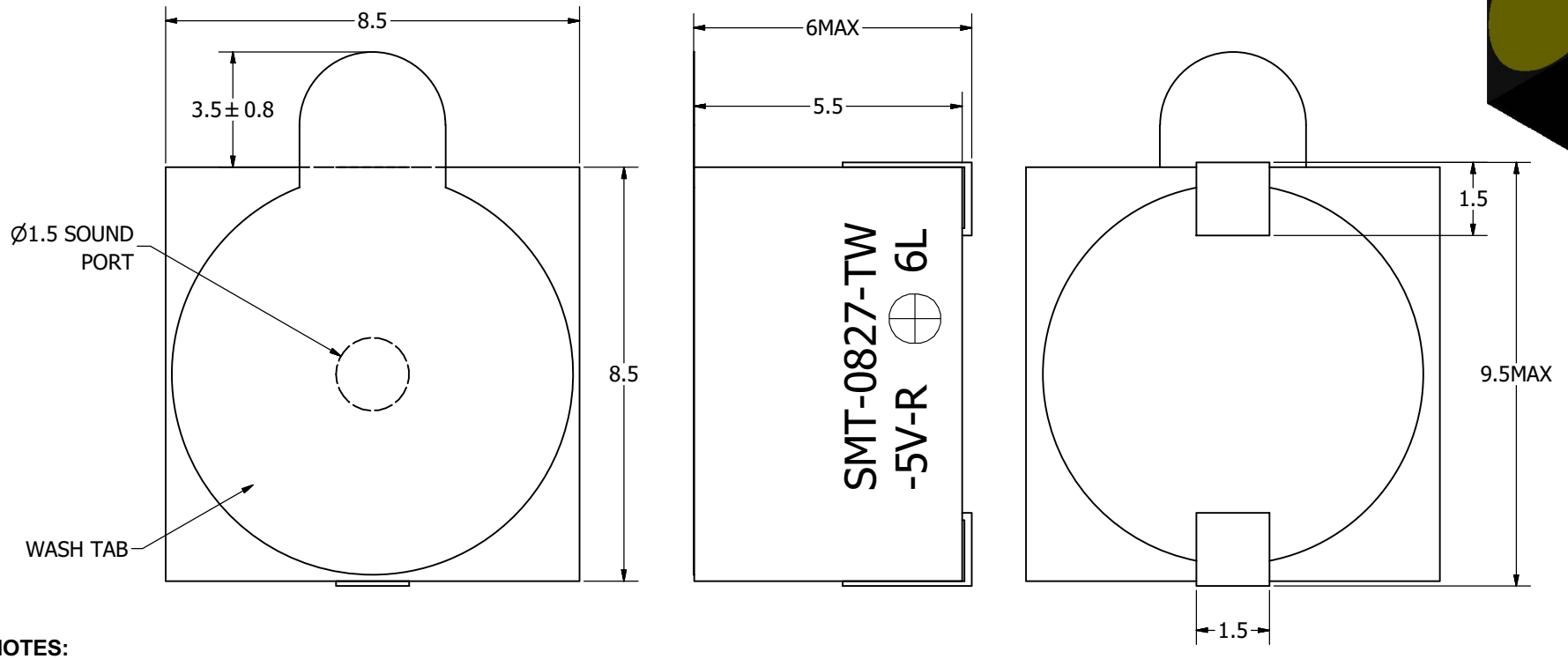
PARAMETERS	VALUES	UNIT
RATED VOLTAGE (SQUARE WAVE)	5	Vp-p
OPERATING VOLTAGE RANGE	3 ~ 8	Vp-p
RATED CURRENT (MAX)	60	mA
COIL RESISTANCE	30 ± 5	OHM
MINIMUM SPL @ 10 CM	85	dBA
RESONANT FREQUENCY	2,730 ± 200	Hz
OPERATING TEMPERATURE	-40 ~ +85	°C
STORAGE TEMPERATURE	-50 ~ +95	°C
HOUSING MATERIAL	LCP	-
TERMINAL MATERIAL	Sn PLATED BRASS	-
WEIGHT	0.6	grams

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REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	3/29/2007	
A	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	11/5/2007	B.R.





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.

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.	3/29/2007	D.F.	4/2/2007	R.W.	4/2/2007	11/5/2007

SMT-0827-TW-5V-R.idw

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SMT-0827-TW-5V-R

Transducer (Electro-Mech)

Edition	Sheet
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