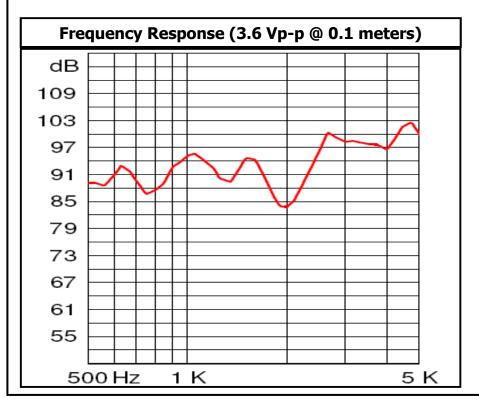


## SMT-1427-S-R 14x11mm Transducer

3541 Stop Eight Road • Dayton, Ohio 45414

## **Product Overview**

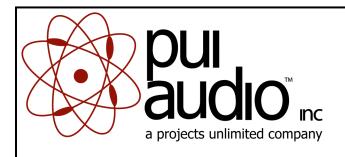
- Side-firing electromechanical transducer designed for 3 to 7 Vp-p
- Small footprint with loud 85 dB output
- 2,700 Hz resonant frequency targets most sensitive region of human hearing
- Designed for reflow soldering with a lead-free reflow profile





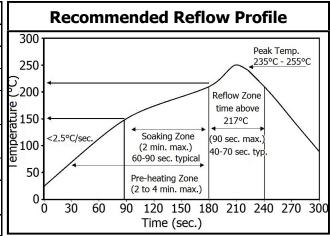


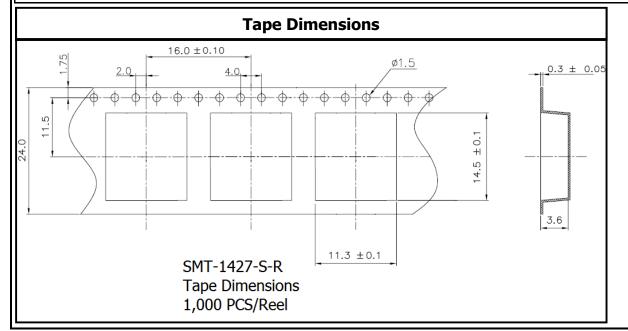


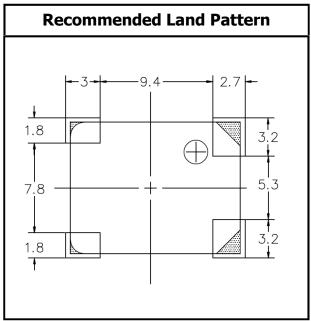


## SMT-1427-S-R 14x11m Transducer

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		







SPECIFICATIONS			
PARAMETERS	VALUES	UNITS	
RATED VOLTAGE	5	Vp-p	
OPERATING VOLTAGE RANGE	3~7	Vp-p	
RATED CURRENT (MAX)	80	mA	
COIL RESISTANCE	30 ± 4.5	OHM	
MINIMUM SPL @ 10 CM	85	dBA	
RESONANT FREQUENCY	2,700 ± 500	Hz	
OPERATING TEMPERATURE	-30 ~ +60	°C	
STORAGE TEMPERATURE	-40 ~ +85	°C	
HOUSING MATERIAL	LCP	-	
TERMINAL MATERIAL	Sn PLATED PHOSPHOR BRONZE	-	
WEIGHT	0.7	grams	

1. ALL DIMENSIONS ARE IN MILLIMETERS.

3. THIS PART IS RoHS 2002/95/EC COMPLIANT.

WITHOUT NOTICE.

2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWL

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REVISION HISTORY					
LTR	DESCRIPTION	DATE	APPROVED		
-	RELEASED FROM ENGINEERING	5/9/2006			
Α	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	5/10/2010	B.R.		

Approved by

SMT-1427-S-R

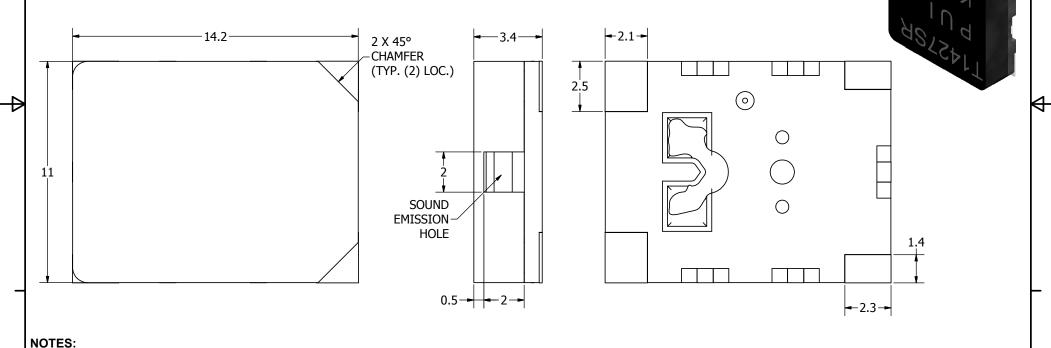
Date

Drawn Date

Sheet

1/1

5/9/2006 5/10/2010



**UNLESS OTHERWISE** 

DIMENSIONS ARE IN

MILLIMETERS,

TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°.

SMT-1427-S-R.idw

Designed by

SIZE

Date

5/9/2006

Checked by

Date

5/9/2006

SMT-1427-S
audio nc a projects unlimited company

Transducer (Electro-Mech)

## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

PUI Audio: SMT-1427-S-R