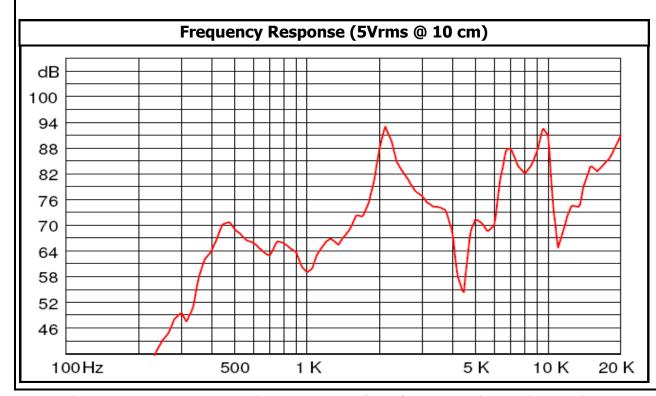


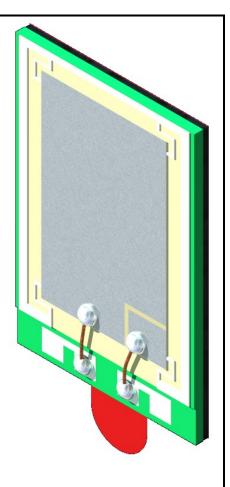
APS2509S-T-R Piezo Speaker

3541 Stop Eight Road • Dayton, Ohio 45414

Product Overview

- 48mm diameter speaker built using a piezo ceramic for minimum current draw
- Designed to work with TTL or CMOS signals as high as 30Vp-p
- Only 2.2 mm thick for slim devices that need high output
- Convenient 100mm leads for quick connection

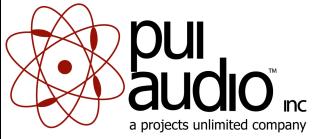








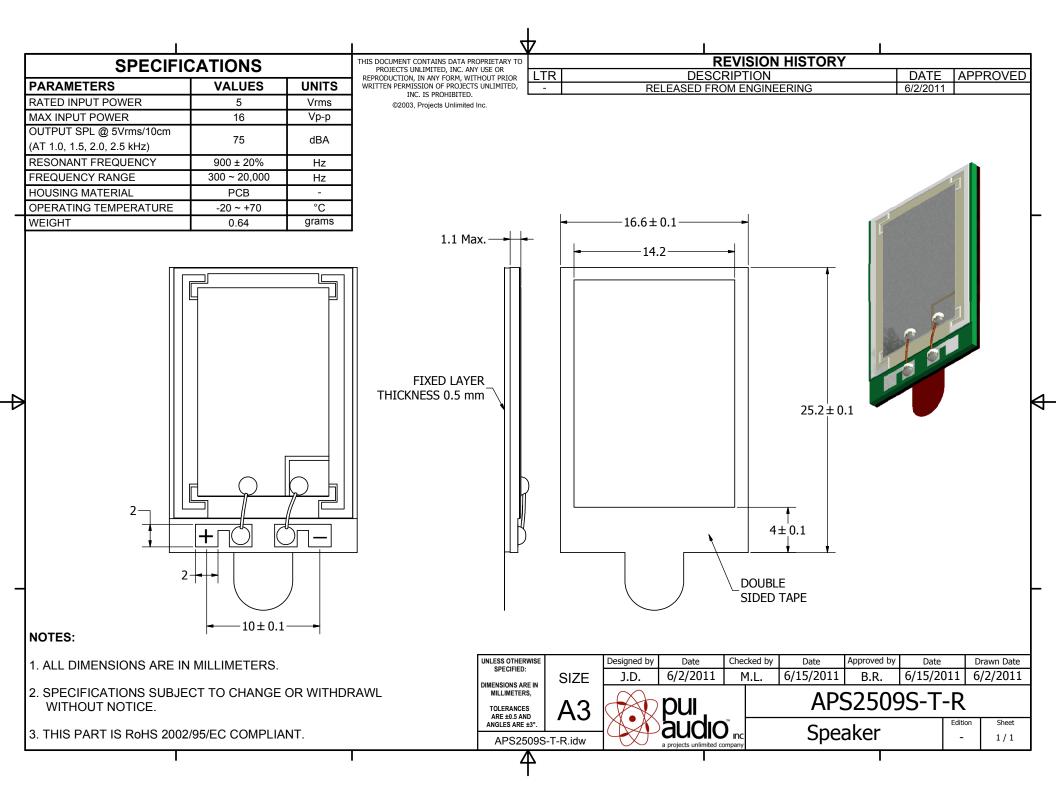




APS2509S-T-R Piezo Speaker

Mechanical and Environment Testing	
Test Description	Test Condition
High Temperature	85°C with random humidity for 240 hours
Low Temperature	-30°C with random humidity for 240 hours
Humidity	60°C with 90% to 95% relative humidity for 240 hours
Vibration	1.5 mm movement modulated at 10 to 55 Hz for 2 hours
Drop Test	150 cm free fall while in 150g jig, 3 cycles per side
Temperature Cycle Test	-30°C for 30 minutes to 85°C for 30 minutes, 20 cycles
After 4 hours at rest, resonant frequency shall be $\pm 10\%$ of original value with capacitance $\pm 20\%$ of original value.	

Recommended Drive Circuit SHDN CONTROL ≥ 20kΩ 14, 22 (D1, D5) MIXIM MAX9788 R_{IN+} 10kΩ OUT+ CLASS G OUTPUT OUT-R_{IN-} 10kΩ C_{IN} 0.47μF CHARGE PUMP 3 (A2) 24 (C1) 15, 21 (C2, C4) 18 (D3) 27 (A1) () WLP PACKAGE DEVICE SHOWN WITH Av = 12dB



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