

APS4812B-LW100-R 48mm Piezo Speaker

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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



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Mechanical and Environment Testing	
Test Description	Test Condition
High Temperature	70°C with random humidity for 240 hours
Low Temperature	-20°C with random humidity for 240 hours
Humidity	40°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	75 cm free fall onto 40 mm thick board, 10 cycles
Temperature Cycle Test	-20°C to 70°C, 5 cycles (refer to Temperature Cycle Test Graph)
After 4 hours at rest, resonant frequency shall be $\pm 10\%$ of original value with capacitance $\pm 20\%$ of original value.	





The piezo ceramic diaphragm shall be clamped at a nodal point as shown in the figure above and be free from any mechanical stress. The resonant frequency and resonant impedance is measured using sine sweep analysis. The resonant frequency is defined where the impedance shows minimum value; this shall also be the resonant impedance.

Capacitance is measured at 120 Hz using an LCR meter such as a Hewlett Packard HP49194A.

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