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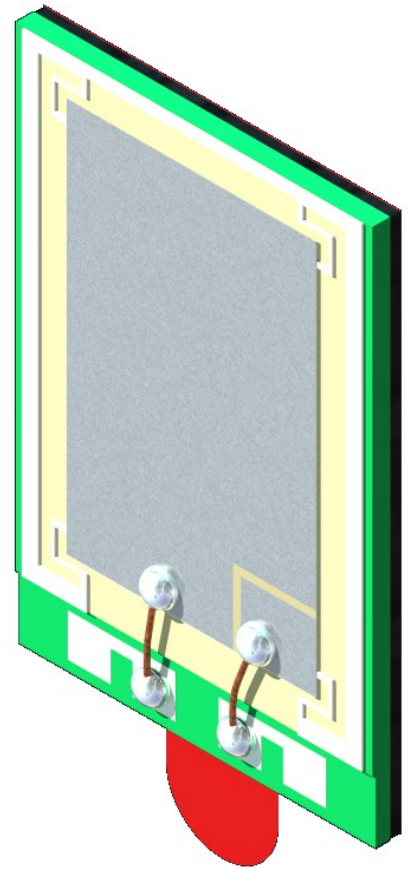
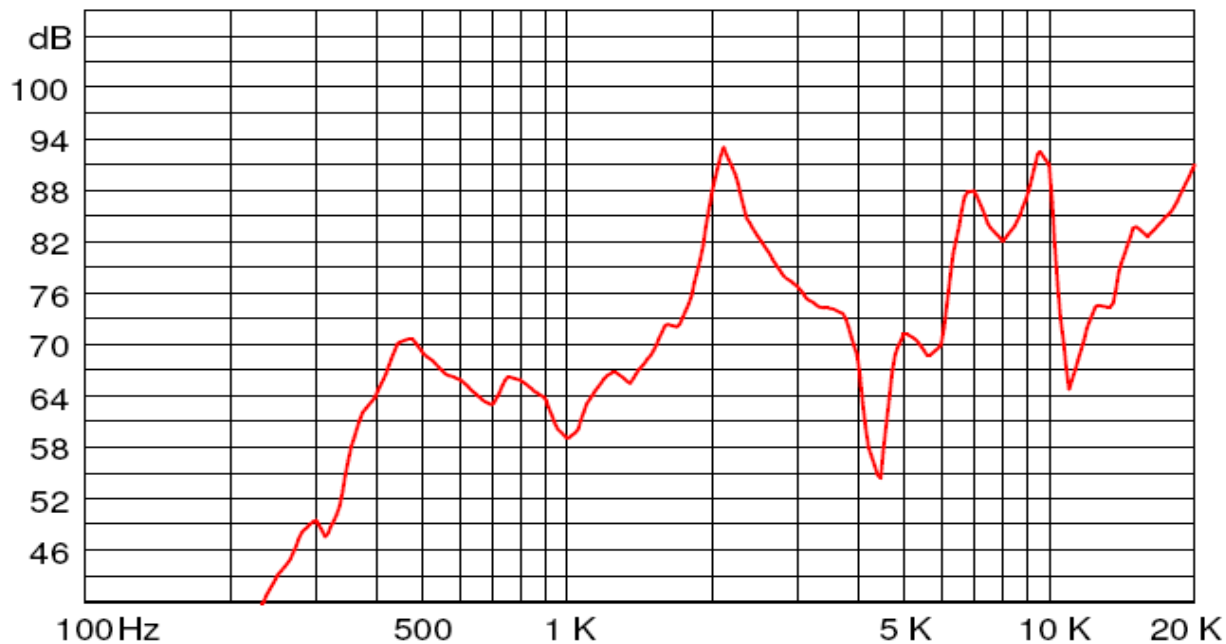
APS2509S-T-R Piezo Speaker

3541 Stop Eight Road • Dayton, Ohio 45414

Product Overview

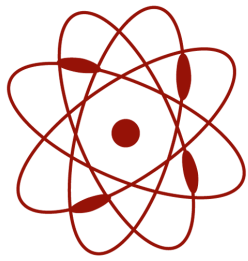
- 48mm diameter speaker built using a piezo ceramic for minimum current draw
- Designed to work with TTL or CMOS signals as high as 30Vp-p
- Only 2.2 mm thick for slim devices that need high output
- Convenient 100mm leads for quick connection

Frequency Response (5Vrms @ 10 cm)



An Initiative of the EICC and GeSI



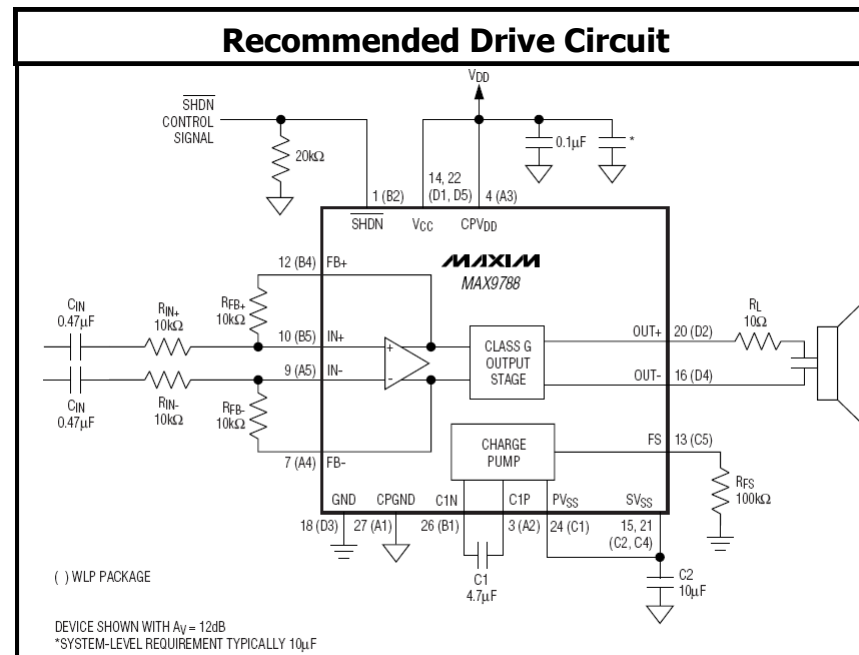


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Mechanical and Environment Testing	
Test Description	Test Condition
High Temperature	85°C with random humidity for 240 hours
Low Temperature	-30°C with random humidity for 240 hours
Humidity	60°C with 90% to 95% relative humidity for 240 hours
Vibration	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.



SPECIFICATIONS		
PARAMETERS	VALUES	UNITS
RATED INPUT POWER	5	Vrms
MAX INPUT POWER	16	Vp-p
OUTPUT SPL @ 5Vrms/10cm (AT 1.0, 1.5, 2.0, 2.5 kHz)	75	dBA
RESONANT FREQUENCY	900 ± 20%	Hz
FREQUENCY RANGE	300 ~ 20,000	Hz
HOUSING MATERIAL	PCB	-
OPERATING TEMPERATURE	-20 ~ +70	°C
WEIGHT	0.64	grams

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REVISION HISTORY			
LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	6/2/2011	



1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWAL WITHOUT NOTICE.
3. THIS PART IS RoHS 2002/95/EC COMPLIANT.



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