

## Ceramic Speaker Driver



National Semiconductor Corp. introduces a single-chip Boomer audio power amplifier for driving ceramic speakers used in a wide range of 3V portable devices. The LM48555 drives ceramic speakers in small handheld devices such as cell phones, smartphones, notebook computers. With a ceramic speaker load equivalent to  $1 \mu\text{F} + 20 \text{ Ohm}$ , it provides a voltage drive of 15.7V peak-to-peak with less than 1 percent total harmonic distortion plus noise (THD+N). In addition, its 12-bump micro SMD package has a footprint of 1.5 mm  $\times$  2.0 mm, making it possible for manufacturers to create ultra-thin, feature-rich handsets. The amplifier's pop-and-click circuitry eliminates noise that typically occurs during turn-ON and turn-OFF transitions.

National Semiconductor  
408-721-6929, [www.national.com](http://www.national.com) [1]

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