Highly Efficient Class-G Amp for Cost-Sensitive Media Players and Mobile Handsets

Texas Instruments Incorporated (TI) today introduced a low-power Class-G headphone amplifier with an integrated digital-to-analog converter (DAC) and power rails for mobile handsets and media players. The TLV320DAC3202 is the only standalone headset driver with digital input I2S and an integrated clocking system that delivers 100-dB SNR at 6.5 mW. The new amplifier allows designers to maximize audio playback quality while extending battery life in moderately priced music phones and other portable consumer electronics. For more information and to order samples of the TLV320DAC3202, visit: www.ti.com/tlv320dac3202-pr.

Key features and benefits of the TLV320DAC3202 include:

* Features industry?s lowest power consumption at 100-dB signal-to-noise ratio (SNR); 3 to 4 dB above the industry standard, with 6.5-mW power dissipation.

* Highly efficient power management technology with the TPS62044 facilitates seamless operation between battery and switched mode input voltage supply for efficient playback, even in systems with minimal input voltage current budget.

* Excellent power supply rejection ratio (PSRR) enables direct power from efficient asynchronous switched mode input voltage supply at 100 dB per channel SNR, eliminating the need for linear regulators for supplies.

* Innovative circuit techniques cut click-pop noise in half compared to leading competitors.

* Aggressive 2-mm x 2.5-mm footprint achieved through TI’s 130-nm analog process technology and circuit techniques minimizes the overall bill of materials and solution size/cost.

The TLV320DAC3202 is available now in a 0.5-mm pitch, 2-mm x 2.5-mm WCSP package, priced at $1.75 in quantities of 1,000.

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