



Belleson LLC
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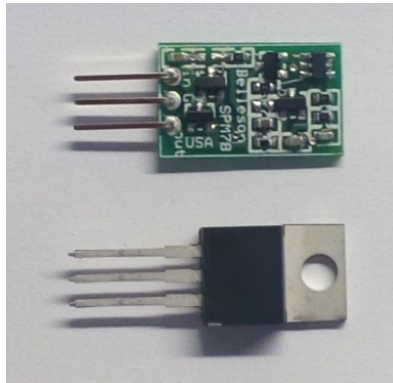
FOR IMMEDIATE RELEASE

Belleson LLC is Shipping SPM Low Noise Superpower Regulators

Greer, SC December 1, 2013 — Belleson LLC, a manufacturer of high performance voltage regulators, today announced the addition of the SPM to its line of Superpower™ voltage regulators. SPM is a miniature, lower cost version of Belleson's industry leading high performance voltage regulators.

SPM has noise less than 1ppm/V of output voltage, thus a 5V output device has less than 5 μ V of RMS noise, and typically 60 μ Vpp 20Hz to 20kHz. SPM delivers up to 225mA in a form factor approximately the same size as a monolithic TO-220 package with much better performance. The regulators are available with output voltages of \pm 3.3V to \pm 30V. They have power supply ripple rejection of 115dB at power line frequencies, and above 90dB at 50KHz.

The patented design (U.S. Patent 8,294,440) has reference and loop amplifier circuitry that is self powered by its own regulated output voltage. It uses an integral floating current reference that allows output voltage to be set with a single resistor. A quiet, fast and stable internal difference circuit keeps output impedance below 10m Ω beyond 50KHz and total audio noise at or below 1PPM of Vout. Output dynamic step response of these series regulators rivals or betters that of shunt regulated and battery supplies. Specified to a maximum 225mA out with drop out voltage of 1V, SPM has no output current limiter and no thermal protection.



Belleson SPM78 Superpower next to a standard TO-220 package.

SPM are developed for the latest generation of high resolution A/D converters, including new fast SAR types, and for professional audio circuits requiring low voltage, low noise and high performance such as SACD players, USB DACs, mixer consoles, microphone preamplifiers, recording systems and high end audio preamps. Other equally low noise Belleson regulators are available with output current to 2A and a built-to-order module with up to 480V out suitable for vacuum tube circuits.

SPM and other Superpower fit standard 3 pin monolithic regulator footprint, with LM317/LM78xx/LM340 pin out (positive regulators) and LM337/LM79xx pin out (negative regulators), in standard output voltages as given in the data sheet. Custom Vout are also available. Data sheet and performance information can be found at <http://belleson.com/> and order information is available at 864 444 9953 or sales@belleson.com. Samples are available immediately from Belleson, larger quantities are available beginning November 2013 and the design can be licensed for production on your own PCB.

About Belleson LLC

Belleson LLC, based in Greer SC USA, designs and manufactures high performance voltage regulators that are in use around the globe.