

FOR IMMEDIATE RELEASE

## **Vektrex's LM-80 Solution Delivers Superb Performance, Accurate Pulse Width Modulation and High Power Density**

*Pulse Width Modulation Method Approved for LM-80-15 Usage*

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The LM-80 standard defines approved test methods for making useful lifetime projections of LED, package, array, module or COB. LM-80 was recently updated in part due to the SSL market moving to higher power devices. Increasingly, lighting designers want to see LEDs and other devices tested using drive methods that closely match end applications. Pulse Width Modulation (PWM) is widely used in many display and lighting products. To remain relevant, the new standard, LM-80-15, allows for PWM current drive as an acceptable way to drive current to the device. Vektrex offers the only test solution on the market that combines the ability to test in both LM-80-15 accepted modes—constant current and pulsed/PWM current.

Jeff Hulett, CTO of Vektrex says, "With SpikeSafe current sources, test designers can perfectly duplicate customer PWM parameters, producing reliability data that matches real-world lighting performance."

Typical pulsed current sources such as popular source-measure units lack the power to support the high currents and duty cycles required for this generation's high power SSL needs. Vektrex current sources support high peak and continuous power levels, so test designers can choose any duty cycle from 0-100%. The SpikeSafe drives current, in both DC and PWM mode, accurately to the ends of the long (40') drive cables typically found in reliability labs.

The SpikeSafe 400 Series Pulsed Current Sources enable testing voltages up to 400V and currents up to 16A and above, meeting the requirement for PWM testing within the new LM-80-15 standards. Any Spikesafe current source may be integrated into Vektrex's LM-80 solution.

Vektrex designs, develops, manufactures and markets advanced precision current source instruments and systems for specialized needs of LED manufacturers and the SSL marketplace. Our products include current sources, thermal control chambers, light measurement systems, LM 80 systems, LM 85 systems, software and accessories.

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