

FOR IMMEDIATE RELEASE
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eTEC HV56 Thermolectric Cooler

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Thin-film thermoelectric cooler designed for high heat electronic applications...

NEXTREME SCALES UP WITH NEW eTEC HV56 ELECTRONICS COOLER

DURHAM, N.C. (November 9, 2010) — Nextreme Thermal Solutions, the leader in microscale thermal and power management products for the electronics industry, today introduces the eTEC™ HV56 module, the next product in its high-voltage (HV) line of thin-film thermoelectric coolers (TECs) designed to address electronics cooling applications with larger heat pumping requirements. At 85°C, the eTEC HV56 can pump 6 watts or 58 W/cm² of heat in footprint of only 11 mm². The device is only 0.6mm high, making it the thinnest, highest heat pumping TEC on the market today.

At 85°C, the eTEC HV56 can create a temperature differential (ΔT) of up to 60°C between its hot and cold sides, and operates at a maximum voltage of 10.8V, making it compatible with commonly found board-level currents and voltages. At 25°C, the device can create a ΔT of up to 50°C with a maximum voltage of 8.8V.

The eTEC HV56 is RoHS-compliant and is manufactured using gold-tin (AuSn) solder, which enables assembly temperatures as high as 320°C. These assembly temperatures make the HV56 compatible with industry standard processes for packaging electronic devices that require tight tolerances.

"Many of our customers have been asking for a higher wattage device in a single package," said Dave Koester, vice president of engineering at Nextreme. "The eTEC HV56 has four times the heat pumping capacity of our HV14 module and operates at higher voltages, making it easier to drive. The introduction of the HV56 also demonstrates our ability to scale up our technology in a variety of configurations based on customer requirements."

Nextreme engineers are currently working with customers in a variety of industries and applications. These include laser diode cooling, high-speed thermal test heads, and CPU hot spot cooling.

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Nextreme Scales Up with New eTEC HV56 Electronics Cooler, Page 2

The eTEC HV56 module is available with an 8 to 10 week delivery lead time. Pricing is available upon request.

Nextreme recommends the use of its thermal modeling, design and engineering services to deliver fully-optimized thermal management solutions. Nextreme routinely conducts analytical and numerical thermal modeling at all design levels from component to module to subsystem. Advanced analysis of complex systems, components or packages often requires more detailed modeling to understand heat flow and thermal gradients.

More information on the eTEC family can be found at www.nextreme.com/etec. Contact Nextreme at 3908 Patriot Drive, Suite 140, Durham, NC 27703-8031; call (919)-597-7300; e-mail info@nextreme.com; or go to www.nextreme.com.

About Nextreme Thermal Solutions™, Inc.

Nextreme Thermal Solutions offers electronics cooling and energy harvesting solutions for telecommunications, semiconductor, consumer, medical, aerospace and government markets. The company uses microscale thermoelectric technology and high-volume semiconductor manufacturing processes to address the growing needs for advanced thermal management and clean-energy solutions world-wide. Nextreme also offers sophisticated modeling, design, engineering, and contract manufacturing services to deliver fully-optimized solutions from standard and customized products that solve the most challenging thermal and power management issues. Nextreme's headquarters and manufacturing facility are based near Research Triangle Park, North Carolina. Visit www.nextreme.com.

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