



For more information, please contact:

Karl von Gunten

Director of Marketing

+1-919-931-1434

Email: karl.vongunten@lairdthermal.com

Laird Thermal Systems Launches New Hi-Temp ETX Series using Next Gen Thermoelectric Materials

The premium Hi-Temp ETX Series thermoelectric coolers deliver active cooling in high temperature environments for autonomous systems, machine vision, digital light processors, optical transceivers and more...

August 31, 2020 – Laird Thermal Systems has developed a thermoelectric module series that is rated for high temperature in emerging optoelectronic applications. The HiTemp ETX Series thermoelectric cooler has a robust construction that allows it to survive in temperatures up to 150°C, exceeding most outdoor applications. It is assembled with advanced thermoelectric materials that boosts cooling capacity by up to 10% compared to traditional thermoelectric coolers. These solid-state heat pumps feature a higher thermal insulating barrier when compared to standard thermoelectric materials creating a maximum temperature differential (ΔT) of up to 83°C.

The enhanced thermoelectric materials are combined with a proprietary construction that prevents performance degradation in high temperature environments, a common problem with standard grade thermoelectric coolers. The HiTemp ETX Series maintains a high coefficient of performance (COP) to minimize the amount of input power required to operate and reduces the heat rejection requirement to the hot side, which is critical in poor heat sinking applications.

Many temperature sensitive optoelectronic devices require active cooling to keep below their maximum operating temperature in outdoor environments. Common applications include LiDAR and CMOS sensors for autonomous systems in vehicles and drones, digital light processors (DLP) used in 3D machine vision and advanced lighting systems, and optical transceivers.

“We are seeing a lot of innovation in the market place where highly sensitive optoelectronics are getting specified into outdoor applications with worst case temperatures exceeding 90°C,” said Andrew Dereka, Product Director at Laird Thermal Systems. “This is a problem for these devices as they are not designed to operate at these temperatures and engineers are creatively figuring out ways to spot cool in these environments using thermoelectrics.”

The HiTemp ETX Series is available in over 50 models covering various footprints, cooling capacities, voltage ranges and finishing options. For more information on the HiTemp ETX Series, or to check for stocking distributors, visit www.lairdthermal.com/hitemp-etx-series

About Laird Thermal Systems

Laird Thermal Systems develops thermal management solutions for demanding applications across global medical, industrial, transportation and telecommunications markets. We manufacture one of the most diverse product portfolios in the industry ranging from active thermoelectric coolers and assemblies to temperature controllers and liquid cooling systems. Our engineers use advanced thermal modeling and management techniques to solve complex heat and temperature control problems. By

offering a broad range of design, prototyping and in-house testing capabilities, we partner closely with our customers across the entire product development lifecycle to reduce risk and accelerate their time-to-market. Our global manufacturing and support resources help customers maximize productivity, uptime, performance and product quality. Laird Thermal Systems is the optimum choice for standard or custom thermal solutions.

For the latest news or more information, visit:

[Lairdthermal.com](https://www.lairdthermal.com) | [Twitter](#) | [Facebook](#) | [LinkedIn](#) | [YouTube](#)

Trademarks

© Copyright 2020 Laird Thermal Systems, Inc. All rights reserved. Laird™, the Laird Ring Logo, and Laird Thermal Systems™ are trademarks or registered trademarks of Laird Limited or its subsidiaries.

###