

JUNE 2023

## BROWSE THERMAL INTERFACE SOLUTIONS



Address and overcome complex heat transfer issues with Laird™ brand thermal interface materials. Learn more by getting started — fast — using our comprehensive and newly updated booklet, [Thermal Interface Solutions](#). It is your guide to the Laird line of industry-leading thermal interface materials, each engineered to resolve excessive

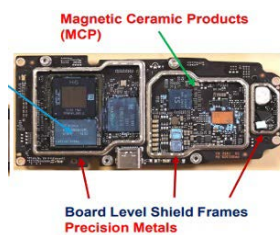
thermal loads which are exacerbated by faster, higher power, and more densely packed components and systems. Included first are overviews and specifications of Laird thermal pads and liquid gap fillers. Our soft, thin, or ultra-thin thermal pads are complemented by Laird's line of stress minimizing, one- and two-part liquid gap fillers. Additional sections cover [phase change materials](#), thermal greases, electrically isolating insulators, thermally conductive printed circuit boards, and graphite materials. Review our [booklet](#) today and see how to beat the heat.

## EXAMINING DEVICE TEARDOWNS



In our informative presentation, *Aerospace and Defense Product Teardowns*, you will get an inside look at the applications and placement recommendations of

a range of Laird™ brand products at work within the aerospace and defense industries. We take the lid off and show ruggedized Laird products specified to help enable and protect components within aircraft, base stations and UAVs, drones, LEO satellites, man pack and handheld radios, and radar detection systems. Explore our aerospace and defense device [teardowns](#), and share it to grow everyone's knowledge.



## FIND NEW EMI SOLUTIONS WITH NANOCRYSTALLINE

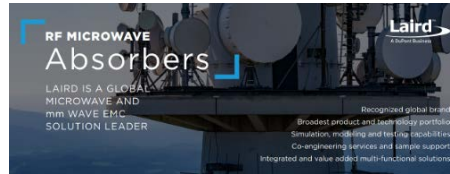
Newly introduced Laird™ Steward™ [Nanocrystalline](#) sheets provide a high-permeability solution for EMI mitigation over a broad frequency range from 100KHz to 100MHz.

A thin sheet of [Nanocrystalline](#) material manages flux and absorbs noise more effectively than traditional (often thicker) ferrite materials, improving energy transfer in wireless power systems to achieve higher charging efficiency. And, with a temperature range reaching up to 125°C, Nanocrystalline sheets are an ideal solution for high-temperature applications. Placed on top of any noise-emitting circuitry, Nanocrystalline sheets provide a thin and space-saving alternative to suppress EMI. The sheets are ideal for applications across industries, including data com, data infrastructure, industrial, consumer and wearable electronics, and health care. Order [samples](#) now.



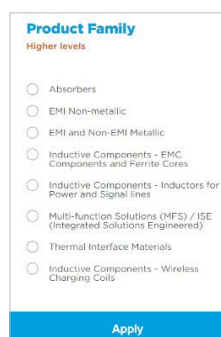
## PINPOINT THE PERFECT ABSORBER

See our line of quality-engineered Laird™ [RF/Microwave absorbers](#) and mm wave absorbers described in this complete and fully updated summary. The informational folder opens with a General Selection Guide. Listed are Laird absorbers commonly specified for near field noise suppression, cavity resonance, free space (isolation, narrow band, broadband), and transmission



load/termination. Next is an overview of frequency ranges addressed and overall performance characteristics of products developed across our extensive line of elastomers, foams, thermoset materials, compounds, and thermoplastic materials. In a subsequent section, the focus is on precise EMI issues Laird helps resolve. They are grouped by each absorber product family addressing the specific issue, including low loss dielectric materials. Last, we provide helpful [Reference Use Cases](#). We list EMI challenges which are common within specific markets. Tied to that is an overview of typical absorber applications benefitting components, systems, and equipment which are developed for those markets. That is followed by absorbers recommended for specific applications per market and application. Review our [absorbers folder](#) and take advantage of the recommendations from experts it contains.

## SAVE TIME: SEARCH BY PROPERTIES



Check out our parametric search tool at Laird.com called [Search by Properties](#) and you can quickly focus on - and compare - Laird products by their desired performance and technical specifications. Start at the product family level, then use filters to narrow your search according to attributes desired. Through its filtering process, [Search by Properties](#) speeds you to uncovering specific

Laird products within families and sub-family groups. You can search by type, function, operating temperature range, length and width, RoHS compliance, and more. Separately, another table offers links to distributors stocking products of interest. Visit this tool today.

## PROTECTING EV BATTERIES, POWER ELECTRONICS

DuPont and Laird have collaborated to produce a new "flyover" [video](#) depicting a wide range of products critical to the long-term reliability of EV battery management and accompanying power electronics technologies. The short video flies you across examples of products and provides short descriptions of the protection and enablement solutions offered by both Laird™ brand thermal, EMI, and multi-functional solutions and DuPont™ Pyralux® copper clad laminates. [Watch](#) it now.

