Radar Detection System Breakdown



John Donovan – FAE

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LAIRD PERFORMANCE MATERIALS DELIVERS DESIGN **ENGINEERING ANSWERS EARLY - THAT EFFECTIVELY** KEEP EMI AND HEAT AT BAY.



PERFORMANCE MATERIALS

Performance **Materials** That Protect **Electronics**

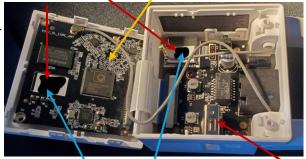
Radar Detection Systems



Outdoor Camera Base station

BLS/Covers Precision Metals

Magnetic Ceramic Products (MCP)



Thermal Interface Material Tflex/Tpcm/Tgrease/Tputty

Outer Casing



Thermal Interface Material Tflex/Tpcm/Tgrease/Tputty

Magnetic Ceramic Products (MCP)

Radomes and other outer casing material

Fingerstock/Spring Contacts Precision Metals

Full Unit









Thermal Interface Materials



Magnetic Ceramic Product (MCP)



Conductive Foam Seals/Gasketing



RF & Microwave Absorbers



EcE and NCE Elastomer Seals/Gasketing

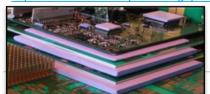




Thermal Interface Materials

- As an industry leader in high-performance thermal interface materials, with new products released this year, Laird offers the following categories:
 - Gap filler pads now up to 34 W/mK thermal conductivity.
 - Thermal putties with dispensing options.
 - Phase change materials now up to 7.5 W/mK.
 - Thermal greases ranging from 1-4 W/mK.
 - Thermally-conductive insulators.
- Additionally, Laird has the capabilities to die cut materials and offer dispensing options.

https://www.laird.com/products/gap-fillers-thermal-interface-materials







Precision Metals

- Laird Performance Materials offers many different standard and custom lightweight precision metals such as:
 - Board Level Shields with lightweight and ultra low board level shields.
 - Fingerstock and Spring Contacts.
 - Custom Metals for structural support and/or EMI shielding.
- Added value capabilities with state-of-the-art software simulations to ensure product reliability.

https://www.laird.com/products/enclosure-solutions/board-level-shielding-bls https://www.laird.com/capabilities/precision-metals





Rigid Corner Patent



aird Cc



Magnetic Ceramic Product

- There is a wide assortment of products within the Laird MCP line, our line includes:
 - Power inductors.
 - Common mode chokes.
 - Wireless charging coils & flexible ferrite sheets.
 - Ferrite chip beads.
 - Ferrite Cable Cores.
 - Baluns & Toroids.

https://www.laird.com/products/inductive-components-emc-components-and-ferrite-cores https://www.laird.com/products/inductive-components-inductors-power-and-signal-lines https://www.laird.com/products/inductive-components-wireless-charging-coils





EMI Gasketing

- Laird offers EMI gasketing solutions for almost any application with high shielding effectiveness, our product line offers:
 - Conductive Foams (CF).
 - Fabric Over Foams (FOF).
 - Conductive Fabrics.
 - Electrically Conductive Elastomers (ECE).
 - Form In Place (FIP).
- There are many options for Laird gaskets from ultra soft materials (silicone or silicone free) to wire mesh materials.
 - All of which can come in custom profiles, die cut parts, or standard solutions.

https://www.laird.com/sites/default/files/emi-cat-ece-080615.pdf







RF & Microwave Absorbers

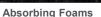
- Laird offers many different absorber solutions spanning across a wide frequency range from cavity resonance to free space applications:
 - Injection Molded, Cast Liquids, and Thermoplastics.
 - Low Loss Dielectrics.
 - Elastomers and Films.
 - **Absorbing Foams.**
 - Gap Fillers.
 - **Custom Magnetic Absorbers.**

https://www.laird.com/products/microwave-absorbers











Radomes

- Laird offers radome materials to enhance antenna signal performance and provide better impact resistance:
 - Radome5 I.S.
 - Radome5 TP.
 - Radome5 Unity.
 - Radome Auto.
 - Rezorb
- From injection molded material to custom made parts to fit an application, Laird has the capabilities to provide a solution for almost any antenna application.

https://www.laird.com/products/multi-function-solutions-mfs-ise-integrated-solutionsengineered/structur-ise



Radome5 Unity



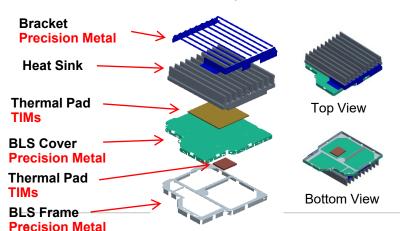




Multi-Functional Solution (MFS)

Laird offers MFS, showcased below, that combine multiple different product lines together to create a single package.

- BLS + Insulation Layer (Dielectric Coating).
- BLS + Absorber.
- BLS + Graphite Heat Spreader.
- BLS + Thermal Interface Material.
- BLS + Black Paint (aesthetic purposes).
- BLS + Several Laird Components Combined.



Other Laird Product Offerings

Laird offers many different product spanning all electronic industries. Other product offerings that have not been discussed are listed below:

- Thermal Adhesive Tape coming soon.
- EMI Tapes.
- Thermal Heat spreaders.
- **Coolzorb** combines characteristics of our thermal and Absorber product lines into one.







EMI Tapes



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