ADVANCED SOLUTIONS FOR AEROSPACE ELECTRONICS

EMI Shielding, Grounding, Engineered Plastics, and Thermal Management

Parker Chomerics

Airframe
Fuel Cells
Door Access
Access/Fuel Panels
Antenna Gaskets
Floor/Inside structural assembly
SER Systems (M)

Communication/Navigation/Identification/Mission Systems
V-UHF
IFF/Transponder
Radio Altimeter
Multi Mode Receiver
Data Storage

Electrical Systems
Power Generation
Electrical Actuator
Power Conversion

Navigation & Flight Control
Stats & Flaps Control System
Flight Control Unit
Digital Radio Altimeter Gyro Unit
Accelerometer Units

Cockpit
Head Up Display
Control & Display System
On Board Navigation System
FLIR System

Cabin system (for commercial aircrafts)
In Flight Systems
Wireless Communication Systems
Seat Control Systems

Detection
Radar
Electronic Warfare
Scanners Unit
Search and Tracks Unit

Thermal Management

EMI Shielding & Grounding

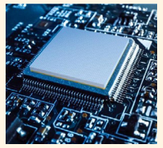
Thermal Management

Thermally Conductive Gels

Highly conformable, high performance fully cured single-component dispensable gap filler ideal for high volume automated dispense processes.

Typical Applications:

Control systems, gyro units, military radars



Thermal Insulators

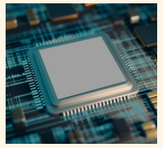
Available in several forms, these materials are designed for use where the highest possible thermal, dielectric and mechanical properties are required.

Typical Applications: Electrical actuators, flight calculator, navigation & flight control

Thermal Gap Fillers

Customized gap pads that offer ease of use, excellent thermal properties and highest conformability for low to moderate clamping force applications.

Typical Applications: Control units, Stats & flaps control systems



Phase Change Materials

Designed to minimize the thermal resistance between power dissipating electronic components and heat sinks, these materials provide superior long term reliability performance.

Typical Applications: Flight calculator, navigation & flight control

Value Added Solutions

Enhancing customer value through vertical integration of design expertise, materials and components:

- Supply chain management
- Secondary assembly, EMI gasketing & thermal management
- EMI shielding coating & plating
- Dispensed EMI & environmental gaskets
- Conductive elastomer overmolded solutions

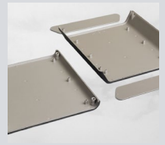
By combining industry leading materials with excellent know-how and support based on decades of experience in shielding and thermal management, complemented by advanced, cost-effective supply chain capabilities, Parker Chomerics can help streamline customer module manufacture and assembly.

EMI Shielding & Grounding

Conductive Elastomers

Selection of Silicone or Fluorosilicone based conductive elastomers that meet the requirements of MILDTL-83528.

Typical Applications: Antenna, door access, radars, radome



Conductive Coatings

Excellent EMI shielding, anti-static protection, corrosion resistance and surface grounding. Superior electrical performance to provide lightning strike protection.

Typical Applications: Fuselage, cabin system, antenna, air frame

Form in Place Gasketing

Range of conductive and non conductive silicone grades to offer reliable and cost saving solutions when designing compact equipment.

Typical Applications: Displays systems, IFF, control unit, antenna

Conductive Adhesives & Sealants

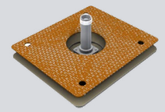
Electrically conductive resins to offer joint or seam integrity for electronic enclosures and maintain electrical continuity to provide lightning strike protection.

Typical Applications: Airframe, cockpit, structural assemblies

Conductive Plastics

EMI shielding thermoplastic that provides world class shielding effectiveness, and offers up to 75% weight reduction over metal.

Typical Applications: Flight control unit, cabin system, navigation systems



Metal Gaskets

METALASTIC® EXP-URE gaskets combine expanded aluminum mesh with a conformable, urethanebased filler to deliver superior corrosion resistance, electrical conductivity, and environmental sealing in flange-to-flange assemblies.

Typical Applications: External antenna, radar, and lighting base seals, corrosive-prone aircraft areas such as lavatories and galleys

The safety critical nature of aerospace applications demands that electronics components and systems onboard must operate with complete reliability over extended periods in what can be extremely tough environmental conditions.

EMI / RFI must be rigorously addressed as part of the design process to avoid the risk of malfunction of individual components or complete modules due to noise and interference from other systems.

In addition, appropriate thermal management measures will help ensure that components within the design are maintained at an optimum operating temperature that gives stable performance, enhances reliability and increases their expected life.

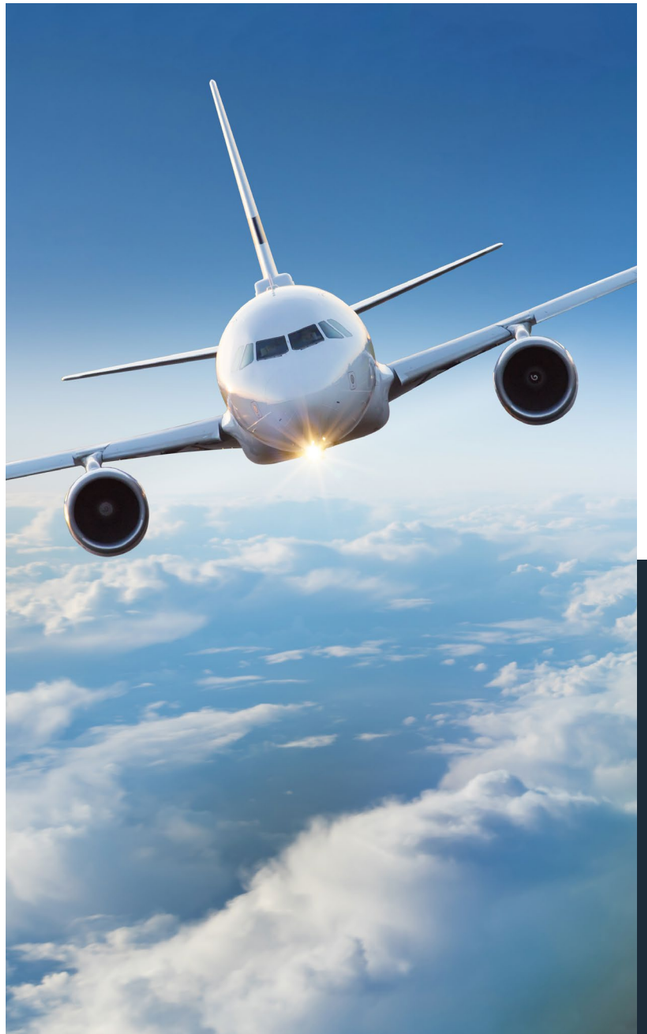
Parker Chomerics offers the products, technical know-how, close customer support and supply chain capabilities to meet these challenges and deliver superior, reliable and cost-effective solutions for the full range of aerospace electronics applications.

Parker Chomerics is a total solution company built on core competencies in material science and process technology serving as the basis for:

- Product development
- Custom engineered solutions
- Complete electronics housing solutions
- Fully integrated optical display assemblies
- Supply chain management

This material science and process technology is applied into many fields including EMI shielding, thermal management, optical display products, engineered plastics and metal based assemblies

Partner with Parker Chomerics and get the benefit of years of experience in satisfying the needs of designs across the engineering spectrum.



Advanced Solutions for Aerospace Electronics

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- Monterrey, Mexico
- High Wycombe, UK
- Frépillon, France
- Sadska, Czech Republic
- Kuala Lumpur, Malaysia
- Chennai, India
- Shanghai, China
- Shenzhen, China

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