

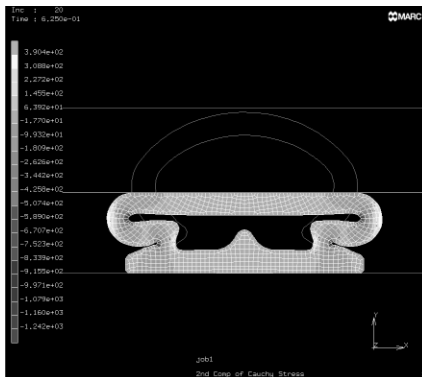
Design Services

Applications Engineering

Engineers confronted by EMI problems frequently have too narrow a focus, or limited EMI experience, which can lead to ineffective EMI designs. That typically means extra cost in retrofits, "brute force" shielding, and repetitive EMI testing. Chomerics can offer you two options: 1) contact us for an EMI design consultation prior to reaching the prototype stage, or 2) contact us to arrange a technical seminar. With either choice, you will receive the help needed to avoid problems in the design stage and avoid costly retrofits and repetitive testing.

If you're in touch with Chomerics before the prototype stage, we'll optimize the housing design using CAD and modeling to achieve the most cost-effective methods of EMI suppression. Or, if your system is already in production, we'll optimize the EMI design within existing constraints. With thousands of successful applications behind us, you can be assured of meeting system EMI specifications.

Our understanding of the variables involved in most EMI shielding problems enables us to direct electronic packaging designers to the most cost-effective answer to any given set of application requirements. Our "octane" product concept allows selections to be made on the basis of both performance and cost. Pre-production samples can be produced for evaluation in prototype systems.



Finite Element Analysis (FEA)

As the premier manufacturer of sophisticated conductive elastomer seals, Chomerics offers its customers the dramatic time- and cost-saving benefits of Finite Element Analysis (FEA). This advanced computer simulation technology is employed to predict the behavior characteristics of EMI gasket designs, bypassing the development and trial-and-error testing of successive prototypes.

FEA will not only confirm that a proposed design will perform as expected, but allows the design to be optimized. Using complex FEA algorithms for elastomers, critical design information is obtained concerning:

- Deformation ■ Load-deflection
- Volume, void ratios, gland fill %
- Stress distribution ■ Stability
- Friction force ■ Thermal effect
- Material selection ■ Seal life

Chomerics' FEA capability is fully integrated into the design process for unusual or complicated EMI gasket configurations. The result is a technically superior solution achieved for our customers more rapidly and cost effectively than ever before.

For assistance, please call our Applications Engineering Department.

EMI Design Seminars

Chomerics offers four technical seminars which provide practical guidelines for solving EMI problems:

- Basic EMI/EMC Design (2, 4 or 8-hour sessions)
- EMC Compliance for Europe CE Mark
- Medical Equipment
- FCC Certification

These are not sales-oriented product exhibits, but comprehensive tutorials emphasizing practical applications rather than shielding theory.

Our seminars are taught by our most experienced technical personnel and are typically presented at customer plants or local conference facilities.

To arrange a seminar, contact your nearest Chomerics Field Sales Engineer or call our Sales Department.

Research & Development

At Chomerics, the Research & Development, Applications Engineering, Manufacturing and Marketing organizations are closely aligned to anticipate and meet the needs of the electronics industry for useful, cost-effective EMI shielding and thermal management products. Chomerics invests in R&D to support our customers in solving unique problems, develop new materials, and expand our core technologies.

Our R&D staff provides not only excellent materials formulation capabilities, but also extensive analytical capabilities that enable us to determine physical, chemical and thermal properties of our materials. These include hardness, compression-deflection behavior, compression set, density, tensile and elongation strengths, thermal conductivity, chemical resistance, and flammability ratings. In addition, our on-site Test Services unit (page 222) provides licensed EMI/EMP testing of our materials.

