

ELECTRONICS COMPONENT MANUFACTURER REQUIRES LOW COMPRESSION FORCE EMI SHIELDING GASKET

The recommended solution for this electronics component manufacturer was to use a Parker Chomerics [SOFT-SHIELD® 3500 series fabric over foam EMI gasket](#) in a similar profile to the current competitor's part. SOFT-SHIELD 3500 is flammability rated to UL 94 V-0 and is available with various profile cross sections each engineered to optimize mechanical form, fit and function while also optimizing electrical performance.

The customer was pleased with the service Parker Chomerics offered and switched their business. Parker Chomerics was also able to come up with different solutions for future business, including an extruded conductive elastomer solution as a backup if operating temperature requirements are increased by the customer.

CHALLENGE

A globally recognized electronics component manufacturer was having service issues with their current supplier. They needed to find an EMI shielding gasket that offered a low-compression force and relatively high performance all within a cost-efficient material solution that could be easily cut into parts.

DESIGN REQUIREMENTS

- Die cut and wrapped around a connector
- Low closure force
- <15% compression set
- Abrasion/sheer resistant
- Easily die cut into standard sizes

KEY CUSTOMER REQUIREMENTS

- Low compression force
- Reliable performance over many cycles
- Material must be easy to convert into cut parts
- Must compress against backplane at low closure force

CONCLUSION

Parker Chomerics [SOFT-SHIELD® 3500 Plated-Fabric Wrapped Foam EMI gasket](#) provided the customer with better performance over the life of their project. Parker Chomerics was also able to offer the electronics component manufacturer better service and a larger variety of solutions than their previous supplier.

Parker Chomerics SOFT-SHIELD® 3500 Fabric-Over-Foam EMI Shielding Gaskets

Parker Chomerics [SOFT-SHIELD® 3500](#) fabric-over-foam (FoF) EMI shielding gaskets deliver exceptional low-closure-force performance tailored for indoor EMI shielding applications. Available in convenient strip form, SOFT-SHIELD 3500 offers an ideal solution for effective EMI shielding and electrical grounding under both shear and compression conditions.

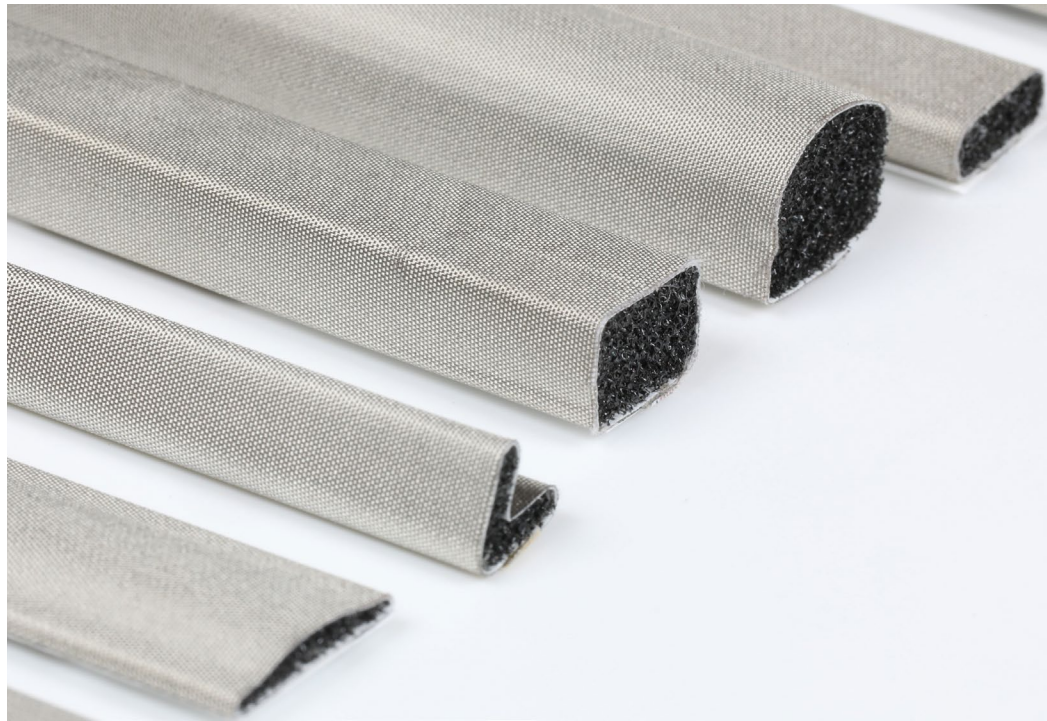
By expertly combining the superior shielding properties of electrically conductive fabric with the conformability of a resilient foam core, SOFT-SHIELD 3500 ensures outstanding shielding effectiveness and long-term reliability throughout the operational life of your equipment.

SOFT-SHIELD® 3500's innovative wrap-around technology grounds the gasket continuously from point to point, effectively eliminating EMI gaps and ensuring superior shielding integrity. Its low closure force and minimal compression set make it an excellent alternative to traditional spring finger shielding solutions, providing one of the most versatile and reliable EMI fabric-over-foam gaskets available on the market.

SOFT-SHIELD 3500 is readily available in bulk, cut-to-length, or customized with cut-outs and features to meet your specific design needs.

[Get a free sample of SOFT-SHIELD 3500 here.](#)

Experience industry-leading EMI shielding with Parker Chomerics SOFT-SHIELD® 3500 — the versatile, low-closure-force fabric-over-foam gasket engineered for superior performance and long-lasting reliability.



KEY PRODUCT BENEFITS

- **Superior Shielding Performance:** Achieves over 100 dB shielding effectiveness across a broad frequency range from 20 MHz to 10 GHz.
- **Low Closure Force:** Requires less than 1 lb/in (0.175 N/mm) closure force, making it perfect for applications where minimal compression is critical.
- **Exceptional Compression Set:** Maintains less than 15% compression set, outperforming most other fabric-over-foam EMI gaskets and ensuring consistent, repeatable shielding performance.
- **Versatile Profiles:** Choose from over 250 profile cross sections, each engineered for optimized mechanical fit, form, and function while maximizing electrical performance.
- **Flame Resistance:** UL 94 V-0 flammability rated for enhanced safety in indoor environments.
- **Fabric Options:** Available with nickel-plated copper woven taffeta or nickel-plated copper polyester woven RipStop fabric, including halogen-free versions to meet diverse environmental requirements.
- **Adhesive Flexibility:** Offered without adhesive, with standard pressure sensitive adhesive (PSA), or with extended liner PSA for easy backing removal.



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CHOGP1039 June 2025

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