Case Study

Computer manufacturer requires EMI shielding of expansion ports for future upgrades

THE CHALLENGE

A desptop computer features a series of expansion ports designed for future consumer upgrades. These ports need to be covered for both mechanical and EMI protection. Snap-in plastic covers covered provided decorative and mechanical protection, but lacked the necessary EMI shielding. A low cost EMI shielding solution was needed.

DESIGN REQUIREMENTS

- 40 dB reduction in EMI emissions
- Reliable electrical ground to chassis
- Removability in the field
- Low-cost, easy installation

KEY CUSTOMER REQUIREMENTS

- Kiss-cut resealable dielectric laminate selectively exposing conductive PSA for 360-degree peripheral grounding
- Pull tabs for fast removal of resealable dielectric film
- No mechanical hardware required for installation
- Low cost, short lead time
- Excellent EMI shielding

CONCLUSION

The Parker Chomerics CHO-PATCH solution featured resealable dielectric EMI shielding provided a low-cost alternative to fastener-mounted metal plates and plastic covers. This material is available in both bulk roles or in custom designed configurations.

THE SOLUTION

Parker Chomerics custom designed a foil/film CHO-PATCH shield from Chomerics' new resealable dielectric EMI shielding laminate. The shield features a relsealable pressure sensistive adhesive (PSA) liner so that the foil can be easily bonded to the chassis.

It is a low cost solution that is ideal for customers looking for lightweight, reliable EMI shielding without the need for hardware for installation.

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