



Case Study

Computer manufacturer requires EMI shielding of expansion slots in desktop models

THE CHALLENGE

A desktop computer features a series of expansion slots for optional or additional disk drives or add-on PC cards for future upgrades. These slots are required to be covered for both mechanical and EMI shielding. Screw-on metal covers provided the necessary EMI protection, but did not meet the requirement for a low-cost solution.

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 Engineered Laminate 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 an Engineered Laminate solution consisting of 5 mil thick aluminum foil, coated with proprietary electrically conductive pressure sensitive acrylic adhesive, featuring a 2 mil thick resealable dielectric film.

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

