

Case Study

Electronics component manufacturer requires EMI elastomer connector gasket

THE CHALLENGE

An electronics component manufacturer requires a filter connector gasket that must be conductive, with z-axis and x-y plane shielding. It must have high reliability on both aging and temperature cycling tests. The customer is currently using a metal gasket with form-in-place (FIP) technology that is not providing the proper performance required.

DESIGN REQUIREMENTS

- Shielding effectiveness reliability
- Good grounding
- Z-axis and x-y plane shielding
- Designated assembly height

KEY CUSTOMER REQUIREMENTS

- Cost effective
- Good grounding
- Optimize product structure

CONCLUSION

Parker Chomerics CHO-SEAL® 1285 conductive elastomer material was selected in a molded gasket shape. CHO-SEAL 1285 is a military grade gasket for corrosive environments; it is lightweight, 200°C max use temperature; good EMP resistance, and as available in many product forms such as the molded gasket used in this case study, but also in extruded or reinforced forms.

THE SOLUTION

The recommended solution for this electronics component manufacturer was to use a Parker Chomerics CHO-SEAL® 1285 conductive elastomer material was selected in a molded gasket shape.

The molded gasket to replace the metal gasket and FIP material was customized to meet the large compression range and grounding required by the customer. The shielding effectiveness and ground performance was met with this solution.

Chomerics was also able to optimize the gasket profile to enhance the compression force required to achieve grounding.

