



GORE™ snapSHOT® Board Level Shield

HANDHELD RADIO APPLICATION SUMMARY

Improve design flexibility for prototype and small quantity applications

Application Overview

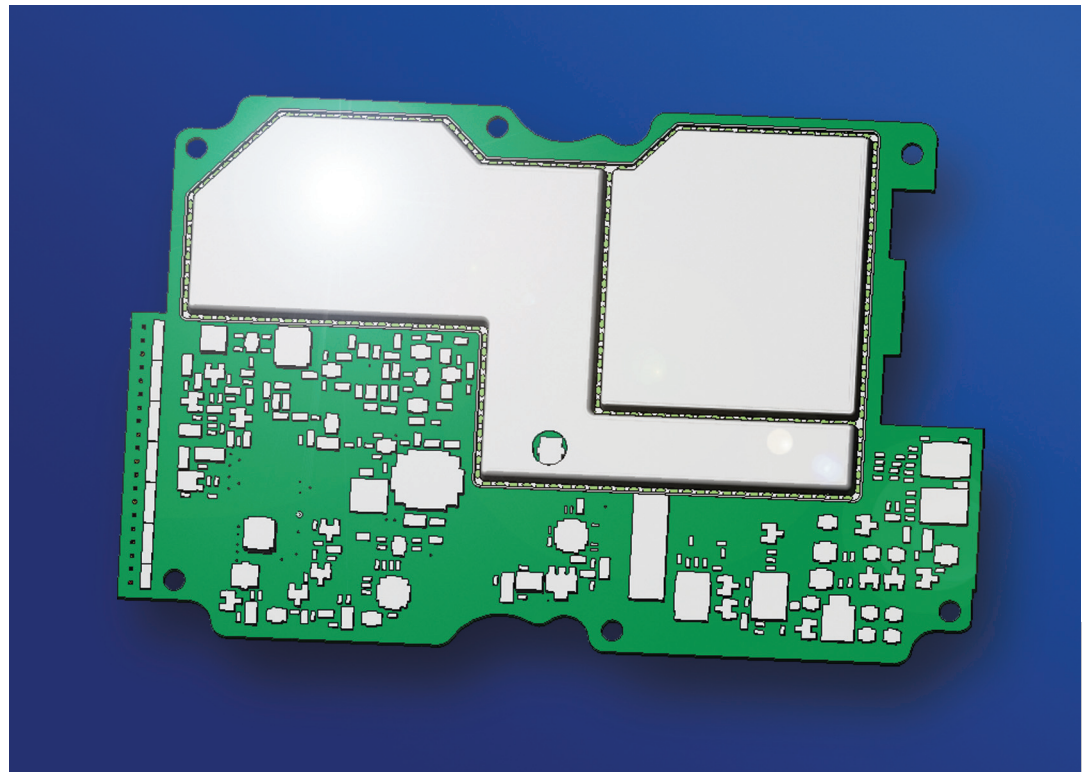
A customer develops prototypes and small quantities of handheld radios (less than 500 units) for defense applications. Key issues for this application include the following:

- Reliable data transmission, including GPS
- Low power usage
- Smaller and lighter package
- Synthesized frequency range

The customer had been soldering standard metal cans to the boards to provide board-level shielding. However, these shields were difficult to use, particularly when changes needed to be made during the design process. In addition, the boards were expensive to tool, took longer to prototype, and reduced flexibility in designing the radio's packaging.

The Gore Solution

GORE™ snapSHOT® Board-Level Shields improve design flexibility and provide high-quality signal performance up to 12 gigahertz. The customer can now focus on effective board design without being limited by the shape of traditional shielding cans. GORE™ snapSHOT® Board-



Level Shields are flexible, multi-cavity shields that allow the customer to reduce package size by varying the height of the shield within each cavity. After working with our application engineers to design one radio's board using GORE™ snapSHOT™ Board-Level Shields, this customer has adopted Gore's technology to provide shielding on almost every new radio design.

Realize the Benefits of GORE™ snapSHOT® Board-Level Shields

- Increased packaging flexibility with custom designed board-level shields
- Reliable signal transmission with excellent EMI performance
- Quick turnaround for prototype applications

Drawing on more than 50 years of experience in fluoropolymer research and applications, W. L. Gore and Associates continues to engineer innovative products for board-level shielding. For assistance in selecting the right shielding product for your application, contact your Gore representative today.

W. L. Gore & Associates, Inc.

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