

Problem Solved!

ELECTRONICS ENCLOSURE FOR AEROSPACE/MILITARY APPLICATIONS

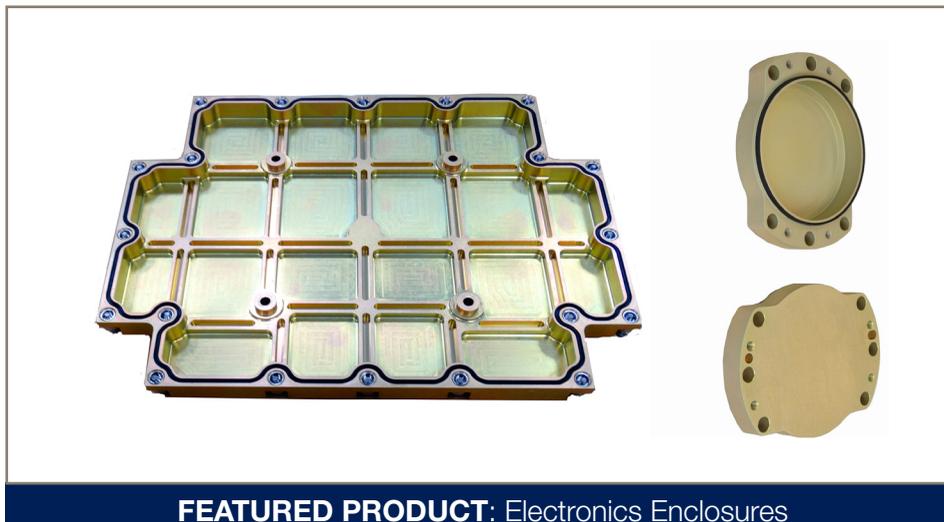


Application

Inertial Measurement Units or IMU's are used in most aircraft and spacecraft to calculate velocity, orientation and gravitational force during flight. In a sense this device works as a GPS when GPS signals are unavailable. With such highly tuned instruments any unwanted moisture or debris can cause miscalculations or system failure. Additionally, the device required calibration prior to use which called for opening and closing of the unit multiple times. When ready for shipment each enclosure must pass a helium leak test.

Problem

Our customer came to us with multiple pains related to current sealing methods utilizing an O-ring. Due to failed leak tests each enclosure had to be re-inspected which included checking for proper surface finish and O-ring installation. The resulting down time lead to increased cost and delayed shipments. Once in the field a pressure washer used for cleaning was blowing through the seal causing damage to electronics.

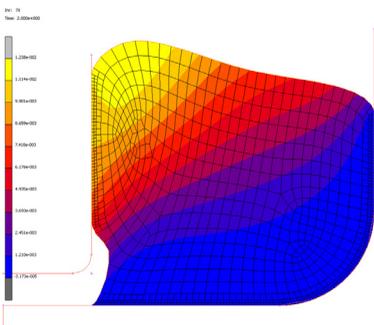


FEATURED PRODUCT: Electronics Enclosures

Parker Solution

Using our Gask-O-Seal™ technology, Parker CSS provided our customer a one piece sealing solution that resolved their pain. The new seal design also removed the need for a machined groove in the mating hardware resulting in a reduction in leak paths. The Gask-O-Seal enclosure resulted in the following savings for the customer:

- Decreased installation and re-work time
- Reduced customer machining time due to relaxed surface finish, simplified groove design, and elimination of a mating hardware groove
- Reduction in tangential and permeation leakage through and around the rubber
- Reduction of foreign object defects (FOD)
- Inventory reduction due to multiple components combined into a single complete part
- Elimination of need to use grease in assembly process



Contact

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