Electronic Enclosures Solution Spotlight

Modifications

Customer: Multiple
Location: Multiple

Problem:

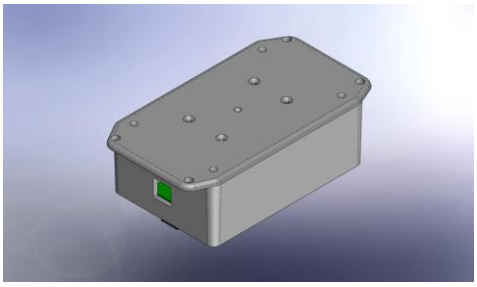
Polycase recommends selecting your enclosure before designing your circuit board, although we understand this is not always feasible. We often work with customers who have designed a circuit board, and then try to source an enclosure to house the board. When this sequence is followed, the circuit board and mounting bosses will most likely not line up. And, because Polycase enclosures have the PCB mounting bosses built directly into the mold, we cannot relocate the bosses.

Solution:

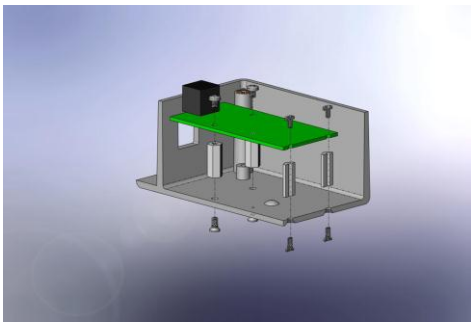
While we cannot relocate the mounting bosses or change the mold, we can supply the enclosure machined with a set of countersunk holes in the location where the bosses are required. Plastic stand-offs can then be fastened to the enclosure, using countersunk screws in the machined holes. Typically, a #4-40 stand-off is used; however other sizes may be selected. The stand-offs can be purchased from an electronics distributor, such as Allied Electronics. *(Please note: It is critical that the combined thread length of the screws that fasten the stand-off to the enclosure and the screws that fasten the PCB to the stand-offs are not longer than the length of the stand-off.)*

Results:

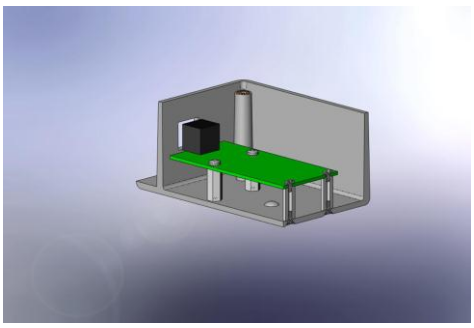
Machining the enclosure to accommodate independent stand-offs is an economical and efficient alternative to revising your circuit board design or buying a custom molded enclosure. Revising a circuit board can be costly and time consuming, and custom molded enclosures often have high minimum quantity requirements and tooling costs. Polycase can, instead, modify the enclosure so you can quickly and easily assemble your PC board into the enclosure.



Polycase can machine the required countersunk holes in the specific locations requested.



Assemble your stand-offs into the enclosure and mount your PC board.



Easily and quickly your PC board fits perfectly.