



## Box Builds – Going Beyond the Boards

Going beyond the PCB Board itself is a necessary step in every electronic design application. PCB boards are all ultimately connected and housed to create a final product. While the pathways and sub-assemblies are endless, there are some important points to consider when deciding whether to take the next steps in producing your box build sub-assemblies or final assemblies in house or having a valued Contract Manufacturing (CM) partner provide them for you.

### Team Based Approach

Box builds are an integrated next level assembly. SoPark's team-based approach can help ease the transition.

Each customer project is assigned dedicated sales, engineering and procurement specialists; forming a team that stays with you throughout the entire process.

Prototypes, critical to any pre-production qualification by your customer, are expedited to ensure timely feedback and delivery of product.

Our engineering team can also recommend advanced Design for Manufacturing (DFM) ideas to improve quality and efficiency in manufacturing, which can save you time and money on your future orders.



### Upcoming Topic...

...New Inspection Techniques

**Contact us or check our website for past issues:**

- Advantages of Conformal Coating
- Minority Women Owned Business
- Critical Components Management
- Offshoring - Finding the Balance
- Design for Manufacturing - DFM

### In house versus partner?

*Here are some helpful points to consider for the CM part of the analysis...*

- **Engineering Support** - What level of engineering support is provided? CMs that can provide connection and enclosure design, Design for Manufacturing (DFM) and testing fixture design can be critical to the process.
- **Sourcing Capabilities** - In today's environment a proven steady hand here can help ensure cost effective solutions can be brought and sustained to your project from prototype to large scale builds.
- **Electronic Assembly Experience** - Experience can help eliminate and solve pitfalls before they get designed, ensuring that subsequent production is done right the first time and every time.
- **Quality** - Is the CM certified and current to key regulations? Do they adhere to established electronic industry standards for best practices for electronic assembly? Certifications such as: ISO 9001, ISO 13485, AS9100, and ITAR Registered can help differentiate a CM's value.
- **Testing** - Testing design and operational experience are a critical part of ensuring each assembly performs properly.

Other key considerations are described in many of our past Circuit News issues on our website which can provide additional insights leading up to a successful box build project (click the links below to our new website):

- **Advantages of Conformal Coating...**

<https://www.sopark.com/wp-content/uploads/SoPark-CNEWS-2.0-Conformal-Coating.pdf>

- **Critical Components Management...**

<https://www.sopark.com/wp-content/uploads/SoPark-CNEWS-2.2-Components.pdf>

- **Design For Manufacturing/Manufacturability...**

<https://www.sopark.com/wp-content/uploads/SoPark-CNEWS-2.4-DFM.pdf>

- **Cables and Harness Assemblies...**

<https://www.sopark.com/wp-content/uploads/SoPark-CNEWS-2.5-Cables-Harnesses.pdf>