Conformal Coating Certifications

MIL-I-46085C and IPC-CC-830C

MIL-I-46085C is a military specification established for insulating compounds used to coat printed circuit assemblies. While it is still referenced for industry compliance, this is an outdated standard that is no longer updated by the Department of Defense (DOD). IPC-CC-830C is the conformal coating qualification standard that was developed to replace MIL-I-46058C. IPC currently maintains and updates this standard with revisions to reflect modern methods and materials as the industry continues to evolve.

The main differences between MIL-I-46085C and IPC-CC-830C include:

- The ability to self-certify new coatings as IPC-CC-830C compliant
- IPC-CC-830C does not have a qualified product list
- IPC-CC-830C incorporates the classification of Ultra-Thin Conformal Coatings such as parylene.

Materials certified to MIL-I-46085C and listed on its qualified product list (QPL) are recognized as meeting IPC-CC-830C, but the inverse is not true. Self-certification under IPC-CC-830C means the manufacturer is responsible for inspection. End users reserve the right to confirm any of the specified inspection procedures and test results.

The list of Dymax products certified to MIL-I-46058C can be viewed in the qualified products database, a centralized database maintained by the Department of Defense. Only if a product has gone through the rigor of being placed on the MIL-I-46058C qualified product list, does it grandfather for IPC-CC-830C.

The Dymax Application Engineering team is ready to discuss your application requirements. Consult our global contacts' phone numbers and online chat feature (available in North America only) during normal business hours for instant support.

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