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IPC-4412A

Amendment 2

Specification for Finished
Fabric Woven from “E”
Glass for Printed Boards

IPC-4412A

May 2009

A standard developed by IPC

The Principles of Standardization

In May 1995 the IPC's Technical Activities Executive Committee (TAEC) adopted Principles of Standardization as a guiding principle of IPC's standardization efforts.

Standards Should:

- Show relationship to Design for Manufacturability (DFM) and Design for the Environment (DFE)
- Minimize time to market
- Contain simple (simplified) language
- Just include spec information
- Focus on end product performance
- Include a feedback system on use and problems for future improvement

Standards Should Not:

- Inhibit innovation
- Increase time-to-market
- Keep people out
- Increase cycle time
- Tell you how to make something
- Contain anything that cannot be defended with data

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Specification for Finished Fabric Woven from “E” Glass for Printed Boards Amendment 2

3.1.6 E Glass (Electrical Grade Glass Fiber)

Add the following new 3.1.6.1 into this section:

3.1.6.1 Dielectric Constant for Base E Glass The permittivity (dielectric constant) of base E glass to be used for printed board applications is 7.3 @ 1 GHZ, as measured by IPC-TM-650, Method 2.5.5.9. At this time, 7.3 is a *reference only* value. The IPC 3-12d Woven Glass Reinforcement Task Group will continue its work on establishing a specification value for permittivity for future revisions of this document.