



March 29, 2011

To Whom It May Concern:

Subject: RoHS, PFOS and DecaBDE Compliance

Thank you for your inquiry into DDi's capability to manufacture printed circuit boards that comply with the European Union's Restriction of Hazardous Substances. DDi, as an environmentally responsible manufacturer, currently produces printed circuit boards that fully comply with the European Union's Restriction for Hazardous Substances Directive 2002/95/EC (RoHS) and Waste Electronic Equipment (WEEE) Directive 2002/96/EC. Specifically, the products produced do not contain the following restricted substances above the threshold limits as specified in the following list:

Restricted Substance	Maximum Limit
Lead (Pb)	0.1% w/w concentration
Mercury (Hg)	0.1% w/w concentration
Hexavalent Chromium (Cr VI)	0.1% w/w concentration
Cadmium (Cd)	0.01% w/w concentration
Polybrominated biphenyls (PBB)	0.1% w/w concentration
Polybrominated diphenylethers (PBDE)	0.1% w/w concentration

Unless a customer specifically requests Hot Air Solder Leveling (HASL), plated tin lead or reflowed tin lead, all printed circuit boards that DDi manufactures are in compliance with RoHS.

All laminate (substrate) materials used at DDi are RoHS compliant. DDi is in compliance with EU Directive (2006/122/EC) to restrict the marketing and use of PFOS (perfluorooctane sulfonate). DDi and its suppliers do not use PFOS or similar chemistries in the manufacture of printed circuit boards. DDi is also compliant with the EPA DecaBDE Phase-out Initiative. DDi Laminates suppliers do not use "decabromodiphenylether" flame retardants. Laminates used at DDi are made of flame retardant by utilizing Tetrabromobisphenol- A (TBBA), which is approved by the EU and not restricted by the RoHS Directive.

Not all materials are compatible with Lead-Free assembly. The standard default FR4 materials, dependent on product design and type, **are not compatible** with the higher temperature profiles associated with lead-free assembly. DDi in cooperation with our laminate suppliers and customers are evaluating and recommending suitable laminates. Please contact DDi Technical Engineering for more details. DDi requires our customers to stipulate within their procurement documents when/if product will be subjected to Lead-Free assembly.

If there is anything else I can provide or if you have any questions, please do not hesitate to contact me.

Sincerely,

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