



April 14, 2009

Actel RoHS Certificate of Compliance

Actel part numbers represented by the "G" nomenclature inserted after the package designator indicates that the device is RoHS 6 compliant. These part numbers are in compliance with Directive 2002/95/EC of the European Parliament and the Council of 27 January 2003 on the restrictions of the use of certain hazardous substances, as listed below in electrical and electronic equipment (RoHS Directives).

Example: Actel RoHS 6 compliant part number: A40MX04-PLG44.

Note: Prior to May 2005, the Actel nomenclature for Lead-Free part numbers was an "X79" designator at the end of an Actel part number, i.e. A40MX04-PL44X79, which has been replaced by the "G" nomenclature.

Actel RoHS 6 compliant devices (with a "G" or "X79") do not include the following RoHS banned substances:

1. Lead and lead compounds
2. Mercury and mercury compounds
3. Cadmium and Cadmium compounds
4. Hexavalent Chromium and Hexavalent Chromium compounds
5. PBB (polybromobiphenyl)
6. PBDE (polybrominated diphenyl ethers)

Actel's standard devices without the "G" or "X79" designators are RoHS 5 compliant. These devices do not contain the following substances.

1. Mercury and mercury compounds
2. Cadmium and Cadmium compounds
3. Hexavalent Chromium and Hexavalent Chromium compounds
4. PBB (polybromobiphenyl)
5. PBDE (polybrominated diphenyl ethers)

For RoHS compliant plastic quad flat packages (PQFP, TQFP, and VQFP), Actel uses 10um thick, pure tin matte plating. There is a risk in using pure tin that tin whiskers may form after a period of time. Actel currently has no plans to offer hermetic packages with 100% pure tin, and will continue to offer plastic packages (5 compliant), ceramic packages, and Mil-Std/QML devices with traditional lead solder as well as RoHS compliant packages (5 compliant).



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