



MATERIALS CERTIFICATE OF COMPLIANCE RoHS Compliance Declaration

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USA

PMC-Sierra certifies that its RoHS branded products, to the best of our knowledge at the time of issuance of this form, have less than the stated compositional homogeneous material limit of the restricted materials and conform to the requirements of the European Union's Restriction of Use of Hazardous Substances in Electrical and Electronic Equipment (RoHS) Directive 2002/95/EC issued January 27 2003, and of the China RoHS, with the exception of Pb in FlipChip (FCBGA) packages.


The following table lists the restricted materials and their respective allowable limits:

RoHS Restricted Substance	Allowable Limit
Cadmium (Cd) and its compounds	100 ppm (0.01 weight %)
Mercury (Hg) and its compounds	1000 ppm (0.1 weight %)
Hexavalent chromium (Cr (VI) and its compounds	1000 ppm (0.1 weight %)
Lead (Pb) and its compounds* (exemptions below)	1000 ppm (0.1 weight %)
Polybrominated biphenyls (PBB)	1000 ppm (0.1 weight %)
Polybrominated diphenyl ethers (PBDE, including DecaBDE)	1000 ppm (0.1 weight %)

* PMC-Sierra FlipChip (FCBGA package) product contain Pb internally in the die underbump. The underbumps may use Pb in eutectic (37% Pb) or high-lead (>85% Pb) solders. The current exemption for this is:

"Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages".

RoHS compliant devices conform to the JEDEC reflow standards for Pb-free products as stated in IPC/JEDEC J-STD-020C. Customers may also refer to the application note PMC-2040933, Moisture Sensitivity Levels and Recommended Reflow.

Signature		Date	Oct 30, 2008
Name	Bruce Scatchard	Title	VP of Quality Assurance and Product Engineering

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