



MATERIALS CERTIFICATE OF COMPLIANCE "RoHS-5" Compliance Declaration

PMC-Sierra Incorporated
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USA

PMC-Sierra certifies that our current products in production, which are not specifically identified as RoHS-compliant, **contain Pb (Lead)** in the external solderballs or solder-plate. But to the best of our knowledge at the time of issuance of this form, the remaining five restricted materials (Cd, Hg, Cr(VI), PBB and PBDE) are not deliberately introduced during the manufacture or assembly processes. These products conform to the remaining requirements of the RoHS Directive 2002/95/EC issued January 27, 2003, and of the China RoHS.


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

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

* These standard products may be able to use the following exemption in the appropriate environment:
"Lead in solders for servers, storage and storage, storage array systems, network infrastructure equipment for switching, signalling transmission as well as network management for telecommunications".

In addition to the above, PMC-Sierra FlipChip (FCBGA package) product contain Pb internally (die underbump). The Pb may either be eutectic (37% Pb) or of high-lead composition (>85% Pb). 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"*.

Product that was designed for PbSn assembly processes is limited to a maximum case temperature of 225°C +0°C/-5°C.

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

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