



RoHS Compliant Statement

1. The Issue

Due to environmental concerns around the world, the need for environmental protection and eliminating hazardous (banned) substance in electronic components and systems is receiving increasing attention within the semiconductor and electronics industries. MOSDESIGN is committed to environment and meeting regulation requirements

2. Substance of concern & RoHS compliance

According to SGS company test results described as following table, that meets the proposed EU RoHS (Restriction of Hazardous Materials) Directive 2002/95/EC threshold for 6 RoHS substances. This means **MOSDESIGN Pb-Free products are RoHS compliant.**

Item	Banned substance	RoHS Proposed Maximum limit (ppm)	MOSDESIGN Pb-Free Product Test Result (ppm)
1	Cadmium(Cd)	100	Acceptable
2	Lead(Pb)	1000	Acceptable
3	Mercury(Hg)	1000	Acceptable
4	Hexavalent Chromium (Cr 6+)	1000	Acceptable
5	Polybrominated Biphenyls(PBBs)	1000	Not Detector
6	Polybrominated Diphenyl Ethers(PBDEs)	1000	Not Detector

3. Impact of 260 Peak Reflow

Pb-Free products are compatible with the current requirement of IPC/JEDEC J-STD-020C, Moisture/Reflow Sensitivity Classification for Nonhermetic Solid State Surface Mount Devices. All Pb-Free products are designed to be soldered at high temperatures and peak temperature is defined as 260 (+0/-5), which is suitable for use in specified lead-free processes, all lead frame-based products will use 100% matte tin (Sn) plating.

4. Part Number of Pb-Free Product

MOSDESIGN defines “NL” as “Pb-Free” or “Lead-Free” product will have a unique part number. Take M1EA for example (see part number diagram below). The part number will be changed with the letter “NL” to denote Pb-Free product.



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