Feb. 13, 2014

Statement Regarding the RoHS Compliance of Spansion Products

Spansion is a manufacturer of flash memory, microcontroller, and analog products.

The EU Directive entitled "Restriction on the use of certain Hazardous Substances (RoHS) 2002/95/EC" became effective on 1st July 2006. It restricts the use of six substances in the manufacture of electrical and electronic equipment. This directive was revised in June 2011 and is now referred to as directive 2011/65/EU. There was no change in the restricted substances associated with this revision.

The substances are:

RoHS Material	Maximum Concentration in Homogenous Material
• Lead (Pb),	< 1,000 ppm
• Mercury (Hg),	< 1,000 ppm
• Cadmium (Cd),	< 100 ppm
• Hexavalent chromium (Cr_{6+}),	< 1,000 ppm
• Polybrominated biphenyls (PBB), and	< 1,000 ppm
• Polybrominated diphenyl ethers (PBDE), including Deca-BDE.	< 1,000 ppm

Spansion products do not contain any of the RoHS materials with the exception of lead (Pb) used in some parts with external SnPb solder finishes. These Spansion products with SnPb solder finishes are 5/6 RoHS compliant. All other Spansion products utilize Pb-free solder and are fully (6/6 or 100%) RoHS compliant.

Spansion memory product OPNs use the 13th digit of the OPN to differentiate between SnPb and Pb-free solder finishes. SnPb solder finishes are coded with an "A". Pb-free solder finishes are coded with an "F", "J", or "H". The highlighted examples below show where to find the code character to determine SnPb and Pb-free applications.

Flash Memory Product Example:	
SnPb OPN:	S29GL512N10FAI002
Pb-free OPN:	S29GL512N10FFI002
Pb-free OPN:	S29GL512N10FJI002
Pb-free OPN:	S29GL512N10FHI002

Spansion Microcontroller and Analog product OPNs use suffixes an "E1" or "E2" for Pb-free solder finishes to differentiate from SnPb solder finish products.

Microcontroller and Analog Product Example:	
SnPb OPN:	No suffix "E1" or "E2"
Pb-free OPN:	Suffix "E1"(Tin compound, Pd/Au)
Pb-free OPN:	Suffix "E2" (Tin 100%)

Additional information on regarding Pb-free Spansion memory products is available on the web at:

http://www.spansion.com/Support/LeadFreePackaging/Pages/LeadFreePackaging.aspx

This website includes:

- Information regarding the availability of our Pb-free solder finish (RoHS Compliant) products, and
- A link to MDDS (Material Declaration Data Sheets) which disclose all of the ingredients of our products.

For questions specific to Spansion's voluntary compliance with product restrictions, please contact product.sustainability@spansion.com.

Spansion, Inc.

Gene Daszko

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