October 1, 2015

Statement Regarding the RoHS Compliance of Cypress Products

Note: Spansion has merged with Cypress. This compliance statement applies to all Spansion and Cypress products that are currently distributed through Cypress Semiconductor.

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

Cypress 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 Cypress products with SnPb solder finishes are 5/6 RoHS compliant. All other Cypress products utilize Pb-free solder and are fully (6/6 or 100%) RoHS compliant.

Cypress lead-free semiconductor product is designated with and "X" in the marketing part number (MPN).

Cypress Product Example:	
SnPb MPN:	CY8CTMA884AA-22
Pb-free MPN:	CY7C1041DV33-10ZS**XI**

Ex-Spansion memory product MPNs use the 13th digit of the MPN 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 MPN:	S29GL512N10F**AI**002
Pb-free MPN:	S29GL512N10F**FI**002
Pb-free MPN:	S29GL512N10F**JI**002
Pb-free MPN:	S29GL512N10F**HI**002

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

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

For questions specific to Cypress's voluntary compliance with product restrictions, please contact qacs@cypress.com.

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