



Mold Compound Change for Analog SOIC Packages



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- Freescale is changing the mold compound for SOIC package family along with the change to Cu wire bond
 - **Old** mold compound: Hitachi HF13 (introduced in 2003); **New** Mold Compound: Sumitomo G630AY (introduced in 2012)
 - G630AY is in production at Freescale for high-thermal SOIC package family
 - Both HF13 and G630AY have demonstrated to meet Cu wire qualification requirements
- Reasons for change to G630AY mold compound
 - Longer material life cycle compared to HF13.
 - Improved mechanical robustness with G630AY
 - Improved adhesion to the lead-frame results in reduced post stress delamination, which addresses feedback from several Freescale customers
 - Mold Compound is available from two factories (assurance of supply)

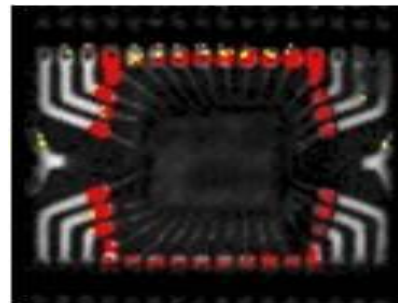
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Status as of 10/22/13

Mold Compound	Total Lots Passing (-50/150 C)		
	1000 TC	1500 TC	2000 TC
HF13	25/25	15/15	11/11
G630AY	14/14	11/11	8/8

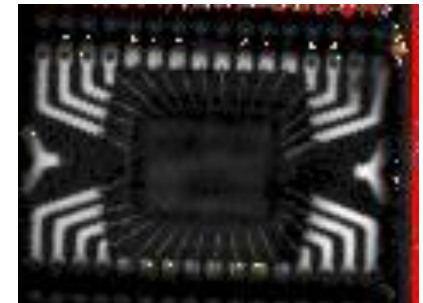
Data from ongoing qual testing of multiple products in SOIC package family.

HF13



Post-2000 T/C CSAM
at Lead Interface

G630AY



Post-2000 T/C CSAM
at Lead Interface

