PCN-STB-001748

Product Change Notice

Issue Date: February 5, 2020

Part Affected & Change Type:
Bump Site change TSMC to ASEK (Lead-Free Bump) to comply with RoHS EU directive 2011/65/EU in 2011 and its amendment Directive (EU) 2015/863 of 31 March 2015.

Parts Affected:

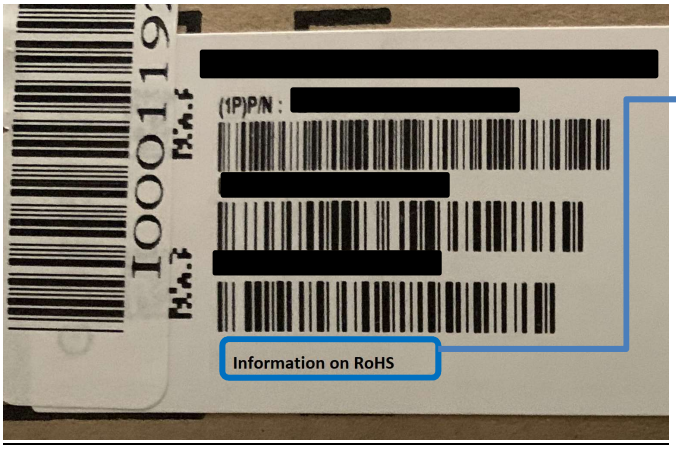
7301APKFEBB1-A2P	7358NNKFEBA1-A2P	7358TPKFEBA3-A2P
7301RPKFEBA3-A2P	7358NNKFEBA3-A2P	7358ZZKFEB3-A2P
7358APKFEBB1-A2P	7358RPKFEBA3-A2P	
7358APKFEBB3-A2P	7358TPKFEBA1-A2P	

Description and Extent of Change:
The bump supplier will change to ASEK and interconnect metallurgy will be changing from eutectic to lead-free. There will be no change in form, fit or function.

Reasons for Change:
Manufacturing flexibility/ RoHS compliance per EU RoHS directive.

Effect of Change on Fit, Form, Function, Quality, or Reliability:
The device specification will remain the same, which will ensure product electrical performance remains the same. Appropriate electrical characterization and reliability qualification has been performed on representative products to ensure normal parametric distribution, consistent electrical performance, and reliability.

Effective Date of Change:
This will be a rolling change, below is the label information to make the necessary distinctions:



How to read the label?

If you see the following:

- RoHS Exempt, RoHS Compliant – these are exempt/compliant under exemption 15 for shipments per current EU RoHS directive prior to March 1st 2020
- RoHS compliant and Halogen Free – this will be the nomenclature on Lead Free parts that are complaint to the current EU RoHS directive

Qualification Data:

Stress Test	Condition	Read points Cycles / Hrs.	Sample Size	Requirements	Results (# fail/ss)

Precondition	MSL3 / MSL4 JESD22-A113E		260 units	0 failures	0 / 260
Temp Cycle	-55C / 125C JEDEC Std. 22-A104-C Cond. B	300 cycles 500 cycles 1000 cycles	76 units 76 units 76 units	0 failures	0 / 76 0 / 76 0 / 76
Thermal Shock	-55C / 125C JEDEC Std. 22-A106 Cond C	300 cycles 500 cycles	76 units 76 units	0 failures	0 / 76 0 / 76
uHast	130° C/85%RH/ JEDEC Std. 22-A102-C	96hrs	76 units	0 failures	0 / 76
HTSL	TA=150° C JEDEC Std. 22-A103-C	500hrs 1000hrs	76 units 76 units	0 failures	0 / 76 0 / 76