

Is there a change in part number for the lead-free components?

- National's strategy is to maintain the same base part number and to include "NOPB" in the spec field to identify lead-free devices. For example, the lead-free version of the LM4890MMX would be identified as "LM4890MMX Spec NOPB" or "LM4890MMX NOPB".

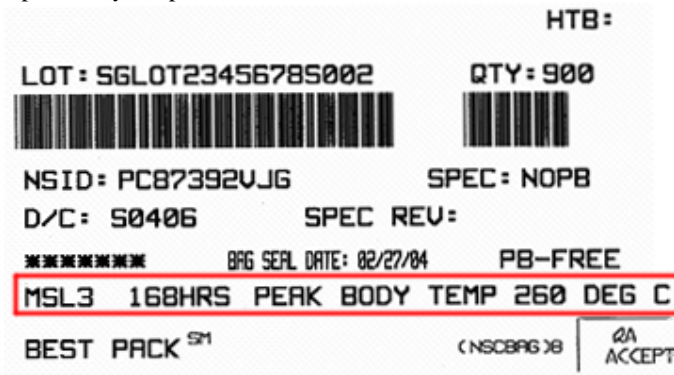
How will lead-free products be identified on the label?

- The bar code label will state "PB-FREE" in human readable form. For example, refer to the following label affixed to the reel, where "PB-FREE" appears in the last line:



What other information is contained on the label?

- The Moisture Sensitivity Level (MSL), the floor life (if MSL is not 1), and the peak body temperature. For example, the following lead-free part is MSL 3 with a floor life of 168 hours (after opening the drybag) and a peak body temperature of 260° C:



11. How will traceability be handled, and how can a lead-free part be identified from the marking on the component itself?

- For lead-free products the die run code, contained in the top mark, will begin with the letters RA – ZZ (except for XX = mixed die run code parts).

The 1st line marking has this format:



UZYWTT where U is the fab code, Z the assembly site code, YW the 2 digit date code and TT, the die run code.

If the marking on a part is as follows,



XS34**TB**

then this is a lead-free part since the die run code, **TB**, is beyond RA ,the start of lead-free die run code.