

## **Packaging Regulations for Cologne Chip Products (Rev.2)**



The following regulations are valid for these products from production date code 2013 week 18:



The chips are packed on trays. Each tray carries 66 chips.



Due to quality reasons it is recommended to open vacuum packs only a little while before soldering.

To avoid rebaking of chips, we recommend to order only multiples of 660 pcs. (= entire vacuum packs).



10 trays are inside a vacuum pack.

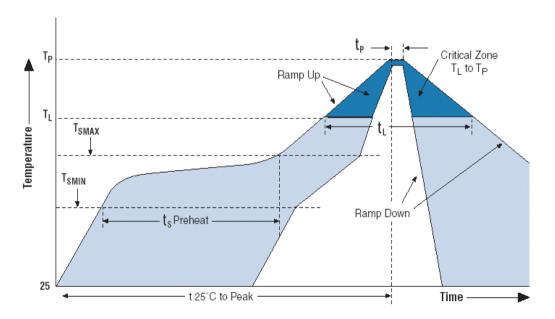


Weight: 2.6 kg Dimensions: 36 cm x 15.4 cm x 9 cm Each vacuum pack is put into a small box. This box is 1 lot (10 trays = 660 pcs. of chips).



## **Soldering Reflow**

Profile Feature	Sn-Pb eutectic assembly	Pb-free assembly
Average ramp-up rate (T <sub>L</sub> to T <sub>P</sub> )	3°C/second max.	3°C/second max.
Preheat - Temperature Min (T <sub>SMIN</sub> ) - Temperature Max (T <sub>SMAX</sub> )	100°C 150°C	150°C 200°C
- Time (min to max) (t <sub>s</sub> )  T <sub>smax</sub> to T <sub>L</sub> - Ramp-up Rate	60-120 seconds	60-180 seconds 3°C/second max
Time maintained above:  - Temperature (T <sub>L</sub> )  - Time (t <sub>L</sub> )	183°C 60-150 seconds	<b>217</b> °C 60-150 seconds
Peak Temperature (T <sub>P</sub> )	225 +0/-5°C	<b>245</b> +0/-5°C
Time within 5°C of actual Peak Temperature (t <sub>P</sub> )	10-30 seconds	20-40 seconds
Ramp-down Rate	6°C/second max.	6°C/second max.
Time 25°C to Peak Temperature	6 minutes max.	8 minutes max.



The recommended profiles for soldering reflow of XHFC-2S4U / XHFC-4SU for Sn-Pb eutectic as well as Pb-free assembly mainly correspond to the commonly applied JEDEC Standard JSTD-020C. But to ensure best surface mounting quality, it is encouraged to use the provisions of Pb-free assembly. The table and graph above illustrate the respective soldering reflow.

## **CAUTION: Vacuum bags contain moisture sensitive devices!**

Surface mount products may have a crack when thermal stress is applied during surface mount assembly if they have absorbed atmospheric moisture. It is recommended that these products are handled under specific conditions described as follows:

Package Type	Storage Condition after unpacking (as maximum)	Rebake Condition as minimum
Pb PQFP 100	Within 168 hours (30°C/60% RH) MSL 3	125°C 24 hours



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