

## Solder Reflow profile for Lead-Free packages. Package Peak Reflow Temperatures

Reflow Conditions	Pkg. Thickness ≥2.5mm or Pkg. Volume ≥350mm3	Pkg. Thickness <2.5mm and Pkg. Volume <350mm3
Pb Free	Convection 245 +0/-5°C	Convection 250 +0/-5°C

1. Package volume excludes external terminals (balls, bumps, lands, leads) and or non-integral heat sinks.

## **Classification Reflow Profiles**

Profile Feature	Pb-Free Assembly		
Frome Feature	Large Body	Small Body	
Average ramp-up rate (T <sub>L</sub> to T <sub>P</sub> )	3°C/second max.		
Preheat Temperature Min (Tsmin) Temperature Max (Tsmax) Time (min to max) (ts)	150°C 200°C 60-180 seconds		
Tsmax to T <sub>L</sub> Ramp-up Rate	3°C/second max		
Time maintained above: Temperature (T <sub>L</sub> ) Time (t <sub>L</sub> )	pove: 217°C 60-150 seconds		
Peak Temperature (T <sub>P</sub> )	245 +0/-5°	250 +0/-5°C	
Time within 5°C of actual Peak Temperature (tp)	10-30 seconds	20-40 seconds	
Ramp-down	6°C/second max.		
Time 25°C to Peak Temperature 8 minutes max.		s max.	

## Profile

