

# LINQALLOY Sn63Pb37

## Eutectic Solder Spheres



- Alloy Composition: Sn63Pb37
- Eutectic temperature: 183°C

**LINQALLOY Sn63Pb57** eutectic solder spheres are lead-free Bismuth-Tin alloys that contain 63% Tin (Sn), 37% Lead (Pb) and are often written as Sn63Balance or Pb37Sn63. These solder Spheres are medium-temperature, lead-containing, eutectic solder spheres and are used by companies working with BGA and CSP components who have not made the transition to Lead-free (Pb-free) soldering.

### Alloy composition

Element	Sn	Pb	Ag	Cu	As	Fe	Sb	Cd	Zn	Al	Bi
(% wt)	63	BL	0.1	0.03	0.03	0.02	0.05	0.002	0.001	0.001	0.03

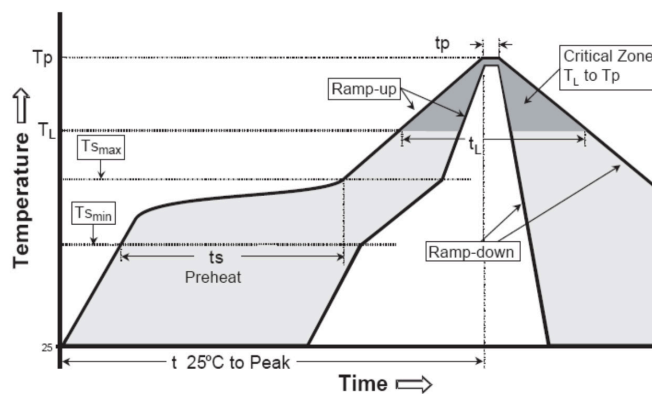
### Tolerance

Diameters (mm)	Tolerance (mm)
0.500 - 0.760	±0.020
0.270 - 0.450	±0.010
0.150 - 0.250	±0.005

### Reflow profile

Please refer to the supplier temperature tolerances of your components and circuit boards.  
Please adjust the reflow profile to your process and application parameters.

Profile	Value
Ramp up	3°C / sec
Preheat Temp (Ts)	100 - 150 °C
Preheat time (ts)	60 - 120 sec
Peak Temp (Tp)	220 - 225 °C
Time ~5°C of Tp (tp)	10 - 30 sec
Ramp down	6°C / sec
25°C to Tp	6 min (max)



### Storage and Handling

Shelf life of the sealed ESD container at 25°C is 12 months. Ideal humidity is <60%RH.

Touching the spheres can lead to contamination and distortion of their shape and surface due to applied pressure and skin oils. Please handle with care.

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