

~Low-silver lead-free solder paste~





Developed highly reliable and low cost low silver alloy solder paste with excellent thermal fatigue and drop impact resistance properties

Characteristics

- Realize higher joint strength and drop impact resistance with low silver alloys than SAC305
- Applicable to various reflow profiles of SAC305

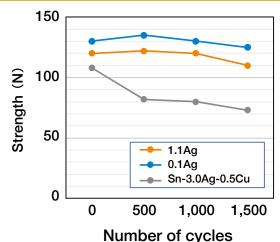
Alloy composition <Patented>

	Low 1.1% silver type	Low 0.1% silver type	SAC305
Composition	Sn-1.1Ag-0.7Cu-1.7Bi + α	Sn- <mark>0.1Ag</mark> -0.7Cu-2.0Bi +β	Sn-3.0Ag-0.5Cu
Melting point	223°C	225℃	219℃
Strength	64MPa	71MPa	42MPa
Elongation	35.2%	26.2%	33.7%

Joint reliability

Excellent joint strength and drop impact resistance

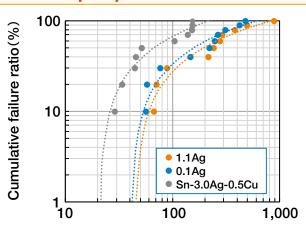






Substrate :FR4/Cu pad ■ Mask thickness :150µm Component : 3216R Cycle condition :-40⇔125℃ (30min. each)

Drop impact resistance



Drop impact number of times

Test condition

Substrate : FR4/Cu pad

■ Mask thickness : 120µm

Component : 0.5mm pitch LGA ■ Drop impact condition: JEDEC 1,500G