

LINQALLOY SAC305-PF

Solder preforms

- Alloy Composition: Sn96.5Ag3.0Cu0.5
- Solidus temperature: 217°C
- Liquidus temperature: 219°C

LINQALLOY SAC305-PF are lead-free Tin/Silver/Copper preforms that contain 96.5% Tin (Sn), 3% Silver (Ag), and 0.5% Copper (Cu). They can be packed in 7" or 12" reels, used in pick and place feeders. LINQALLOY TR-SAC305 Solder preforms are used by companies working with BGA, CSP, LBGA, PBGA and CBGA components who have made the transition to Lead-free (Pb-free) soldering.

Alloy composition

Element	Sn	Ag	Cu
(% wt)	96.5	3	0.5

Packaging

Preform	Length(mm)	Width(mm)	Height(mm)	Volume(mm ³)
0201	0.60	0.30	0.30	0.054
0402	1	0.50	0.50	0.250
0603	1.6	0.8	0.8	1.020
0805	2.03	1.27	0.76	1.960
1206	3.56	1.52	0.77	4.170

Packaging	0201	0402	0603	0805	1206
7" reel	20,000	10,000	4,000	3-4,000	3-4,000
12" reel	-	25,000	15,000	15,000	15,000
Dielectric	Paper	Paper	Plastic	Plastic	Plastic

Product properties

Property	Value	Unit
Solidus T	217	°C
Liquidus T	217	°C
Peak Reflow T	245 - 250	°C
Density	7.4	g/cm ³
Tensile Strength	45	MPa
Electrical resistivity	13.2	μΩcm
Thermal Conductivity	62	W/mK

Storage and Handling

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

Touching the preforms 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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