

Technical Data Sheet



THICK FILM MATERIALS

Product Type: Conductors

Product Name: C2330



Pb and Cd Free Silver/Palladium Conductor

Description

C2330 is a Pb, Cd and Ni free silver/palladium (3:1) high solids conductor paste designed for hybrid applications utilizing aluminum nitride. It exhibits good solderability and excellent adhesion.

Key Benefits

- Excellent solderability
- Excellent adhesion to aluminum nitride
- REACH¹ and ROHS² compliant

Typical Properties

Resistivity

30 – 40 mΩ/□ at 15 μm fired film thickness

Adhesion

80 x 80 mil pad – Maruwa AlN Substrate
Sn62/Pb36/Ag2

Initial: > 4.0 lbs

1000 hours @ 150 °C: > 3.0 lbs

SAC305

Initial: > 4.0 lbs

1000 hours @ 150 °C: > 3.0 lbs

Solderability

Sn62/Pb36/Ag2 at 230 °C, RMA flux
> 95 % coverage for 5 second dip

SAC305 at 250 °C, RMA flux

100 % coverage for 5 second dip

Viscosity

150 – 220 Pa-s, Brookfield HBT, DVIII

SC4 – 14 spindle, 6R utility cup at 10 rpm, 25 °C

Solids

82.0 – 84.0 %

Recommended Processing Guidelines

Printing

280 mesh stainless steel screen

Drying

150 °C peak temperature

Dwell time for 10 to 15 minutes

Firing

850 °C peak temperature

Dwell time for 10 minutes

Thickness:

Wet: 34 – 38 μm

Dried: 22 – 26 μm

Fired: 13 – 16 μm

Thinner:

RV-372

Warranty:

Material guaranteed to meet specifications for 6 months from date of shipment.

Storage:

Store in a dry location at 20 – 25 °C.

DO NOT REFRIGERATE.

Allow paste to come to room temperature prior to opening.

Spatulate well before using, as settling may occur during storage.

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Legend:

1) REACH compliant according to the latest * Annex XIV to Regulation (EC) of the European Parliament and of the council on the Registration, Evaluation, Authorisation and Restriction of Chemicals ("REACH") by European Chemicals Agency and its subsequent amendments; the material does not contain any substance listed in Annex XIV.

2) RoHS compliant according to the latest * Directives (European Union) of Restriction of Hazardous Substances ("RoHS") and its subsequent amendments (including the exceptions related to Pb)

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