

Technical Data Sheet

THICK FILM MATERIALS

Product Type: End Terminations

Product Name: ET1897



Lead Free Plateable Silver End Termination

Description

ET1897 is a Pb and Cd free, nickel plateable silver end termination designed to be compatible on Multilayer ceramic chip capacitors (NPO and X7R bodies). Nickel plating can be done without pre-plate processing due to the low glass content on the fired surface.

The rheology of ET1897 is suitable for machine dipping.

Key Benefits

- Nickel plateable no pre-plate processing
- Low usage excellent coverage uniformity
- Dense fired microstructure
- Pb and Cd free
- REACH¹ and ROHS² compliant

Typical Properties

Metal Type

Silver

Viscosity

30 – 40 Kcps Brookfield RVT

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

Solids

75.0 % – 78.0 %

FOG

≤ 10 µm (at 4th scratch)

Recommended Processing Guidelines

Drying

150 – 180 °C for 8 minutes

Peak temperature of 175 °C for 2 minutes

20 minutes total cycle time

Firing

700 – 800 °C peak temperature

Dwell time at temp. 5 – 7 minutes

Thinner:

RV-372

Warranty:

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

Storage:

Store in a dry location at 5 – 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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