

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

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.

Heraeus Electronics
Heraeus Deutschland GmbH & Co. KG
Heraeusstraße 12 – 14
63450 Hanau, Germany
www.heraeus-electronics.com

Americas
Phone +1 610 825 6050
electronics.americas@heraeus.com

China
Phone +86 53 5815 9601
electronics.china@heraeus.com

Asia Pacific
Phone +65 6571 7649
electronics.apac@heraeus.com

Europe, Middle East and Africa
Phone +49 6181 35 4370
electronics.emea@heraeus.com

The descriptions and engineering data shown here have been compiled by Heraeus using commonly-accepted procedures, in conjunction with modern testing equipment, and have been compiled as according to the latest factual knowledge in our possession. The information was up-to date on the date this document was printed (latest versions can always be supplied upon request). Although the data is considered accurate, we cannot guarantee accuracy, the results obtained from its use, or any patent infringement resulting from its use (unless this is contractually and explicitly agreed in writing, in advance). The data is supplied on the condition that the user shall conduct tests to determine materials suitability for particular application.