

Technical Data Sheet

THICK FILM MATERIALS

Product Type: End Terminations

Product Name: ET1856



Solderable and Plateable Silver/ Palladium End Termination

Description

ET1856 is a Pb and Cd free solderable & nickel plateable silver/palladium (4:1) 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.

Key Benefits

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

Typical Properties

Viscosity

30 – 40 Kcps Brookfield RVT
SC4 – 14 spindle, 6R utility cup at 10 rpm, 25 °C

Solids

76.5 ± 1.5 %

Solderability

Sn62/Pb36/Ag2 at 230 °C
5 second dip, RMA flux

Sn6/Pb40 at 250 °C,
5 second dip, RMA flux

FOG

≤ 10 µm (at 4th scratch)

Recommended Processing Guidelines

Drying

150 °C for 10 minutes
20 minute total cycle time

Firing

650 – 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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