

## Technical Data Sheet



### THICK FILM MATERIALS

**Product Type:** End Terminations

**Product Name:** ET2002



### Polymer Silver Plateable End Termination

#### Description

ET2002 is a dippable polymer based silver end termination with a reduced silver content for cost sensitive applications. It contains a fast curing polymer system.

ET2002 is a Pb and Cd free Ni/Sn plateable polymer end termination designed to be compatible on multilayer ceramic chip capacitors (NPO and X7R bodies).

#### Key Benefits

- Ni and Sn plateable
- Solvent resistant
- Pb and Cd free
- REACH<sup>1</sup> and ROHS<sup>2</sup> compliant

#### Typical Properties

##### Metal Type

Silver

##### Adhesion

Excellent Adhesion

##### Solvent Resistance

Excellent

##### Viscosity

20 – 40 Kcps Brookfield HBT  
SC4 – 14 spindle, 6R utility cup at 10 rpm, 25 °C

##### % Solids

60.0 ± 1.0 %

##### Application

A blotting step can be used to control the amount of paste deposited on the chip body, if needed.

#### Recommended Processing Guidelines

##### Mixing

Material should be thoroughly mixed prior to use

##### Cleaning

Clean uncured resin with Acetone or similar solvent

##### Drying

120 °C for 20 minutes

##### Curing

185 °C for 60 minutes

##### Resistance

< 90 mΩ/□ per mil  
200 °C for 30 minutes

##### Thinner:

V-521

##### Warranty:

Material guaranteed to meet specifications for 3 months from date of shipment.

##### Handling and Precautions:

Use in a well-ventilated area  
Avoid contact with skin  
Wash with soap and water

##### Storage:

Refrigeration a 5 °C required to maintain shelf life.  
Allow paste to come to room temperature prior to opening.  
Spatulate well before using, as settling may occur during storage.

3 months shelf life at room temperature  
6 months shelf life when stored in refrigeration

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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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