

Technical Data Sheet



THICK FILM MATERIALS

Product Type: End Terminations

Product Name: ET1450



Pb and Cd Free Silver/ Platinum Conductor

Description

ET1450 is a Pb, Cd and Ni free plateable Ag/Pt conductor that yields a smooth, dense film. ET1450 is an excellent choice for plating applications, such as copper, nickel and gold.

Key Benefits

- Plateable
- Excellent aged adhesion
- Dense fired film

Recommended Processing Guidelines

Printing:

230 - 325 mesh stainless steel screen 0.5 mil emulsion

Drying:

150 °C for 10 minutes

Firing

 $850~^{\circ}\text{C}$ peak temperature Dwell time of 10-12 minutes at peak Total cycle time of 36-60 minutes

Film Thickness:

 $\begin{array}{ll} \text{Dried:} & 20-25 \ \mu\text{m} \\ \text{Fired:} & 10-14 \ \mu\text{m} \end{array}$

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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Typical Properties

Resistivity:

 $\leq 4.0 \text{ m}\Omega/\square$ at 12 µm fired film thickness

Viscosity:

200 – 250 Kcps Brookfield HBT SC4 – 14 spindle, 6R utility cup at 10 rpm, 25 °C

Solderability (after plating):

80 x 80 mil pad Sn62/Pb36/Ag2 at 230 °C 5 second dip, RMA flux 100 % coverage)

Solder Leaching (after plating):

Sn62/Pb36/Ag2 at 230 °C 10 seconds dip, RMA flux

# of Dips	% Line Lost
1	≤ 10 %
3	< 15 %

Adhesion:

80 x 80 mil pad Sn62/Pb36/Ag2 at 230 °C

Initial: \geq 5.0 lbs (before plating)

Solids:

 $79.6\pm1.0~\%$

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