Heraeus

Component Metallizations

PC10904HV

Silver Conductor

Description:
PC10904HV is a high performance silver conductor designed for metallizing ceramic component devices. The rheology of PC10904HV is optimized for dipping and spraying methods of application.

- **Key Benefits:**
  - Excellent conductivity
  - High adhesion to various oxide substrates
  - Optimized for dipping and spraying applications

- **Typical Properties:**

Resistivity:
< 1.5 milliohms per square
at 25 microns fired film thickness.

Viscosity
8.5 – 9.5 Kcps Brookfield RVT
Spindle #5 @ 20 rpm, 25°C

Solderability:
3 seconds dip
Sn62/Pb36/Ag2, 200°C

Excellent

Solder Leaching:
Sn62/Pb36/Ag2, 230°C
50% loss of 10mil wide conductor trace

5 x 5 second dips

Adhesion:
62Sn/36Pb/2Ag, 230°C
80 mil x 80 mil pad

Initial: > 6 lbs

- **Recommended Processing Guidelines:**

Application:
The material should be thoroughly shaken before use.
Apply the material by dipping or spraying.

Drying:
Dry at 125-150°C for 5-10 minutes.

Firing:
850°C - 925°C peak temperature
Dwell time of 5-10minutes dwell time.

Thinner:
RV-404 (Butyl Acetate)

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

Storage:
Store in a dry location at 5°C-25°C.
DO NOT REFRIGERATE.
Allow paste to come to room temperature
prior to opening.
Spatulate well before using.

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