Heraeus

Conductors

C4081T

Silver/Palladium Conductor

Description:
C4081T is a Ag/Pd/Pt formulation which provides outstanding leach resistance and aged adhesion with many types of solder. This material has excellent silver migration resistance. C4081T prints and hold 5 mil lines and spaces. It's exceptional coverage makes C4081T cost effective to use.

- **Key Benefits:**
  - Excellent Ag migration resistance
  - High coverage
  - Outstanding leach resistance

- **Typical Properties:**

Resistivity:
≤ 187 milliohms per square
at 8.5 microns fired film thickness

Adhesion:
80 x 80 mil pad
62Sn/36Pb/2Ag @ 230°C
Initial ≥ 4 lbs
Aged ≥ 3.0 lbs (48 hours @150°C)

Solderabilty:
62Sn/36Pb/2Ag
@ 225°C, RMA flux
≥ 95%

Solder Leaching:
63Sn/37Pb
@ 225°C, RMA flux, 5 sec. dips

# Dips	% Line Lost
15	0
20	≤15

Viscosity:
210-260 Kcps, Brookfield HBT,
spindle #6 @ 10 rpm, 25 °C

Solids:
71.1 ±1%

- **Recommended Processing Guidelines:**

Printing:
280 stainless steel mesh
0.5 mil emulsion

Drying:
Dry at 150°C for 10 minutes

Firing:
850°C peak temperture
Dwell time of 9-11 minutes

Line Resolution:
5 mils (125 microns)

Thickness:
Wet: 30-34 microns
Dried: 18 microns
Fired: 7-10 microns

Coverage:
169 cm^2/g

Thinner:
RV-372 (Terpineol)

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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