Heraeus

Conductors

C8717B

Thick Print Silver Conductor

Description:
C8717B is a lead, nickel and cadmium free Ag conductor that yields a smooth, dense film on alumina and BeO. This material is recommended for power hybrid applications where high current is a requirement and for large ground plane areas. C8717B provides excellent solderability, void free soldering and good solder leach resistance.

- **Key Benefits:**
  - Lead, nickel and cadmium free
  - Excellent fired film density
  - Low resistivity
  - High adhesion
  - Excellent solderability

- **Typical Properties:**

Resistivity:
< 2.0 milliohms per square
at 25 microns fired film thickness.

Adhesion:
2x2 mm pad

Initial:	≥5.0 lbs
Aged:	≥5.0 lbs (48 hrs. @ 150°C)

Solderability:
5 second dip @ 230°C
62Sn/36Pb/2Ag, RMA Flux
≥ 95%

Solder Leaching:

	#of Dips	% Line Lost
10sec dips RMA flux	1	≤ 10%
62Sn/36Pb/2Ag, 230°C	3	≤ 15%

Viscosity
140-200 Kcps Brookfield HBT
SC4-14 spindle and 6R utility cup
@ 10 rpm, 25°C,

Solids:
90% ± 1%

- **Recommended Processing Guidelines:**

Printing:
280 mesh stainless steel screen.
0.5 mil emulsion

Coverage:
70 cm^2/g at 12 micron fired film thickness.

Drying:
Leave at room temp. for 5-10 minutes.
Dry at 150°C for 10 minutes.

Firing:
850°C peak temperature
Dwell time of 10-12 minutes.
Total cycle time 36-60 minutes.

Thickness:

Dried:	30 - 36 microns
Fired:	18 - 25 microns

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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