

## Conductors

### C8829A



## Low Temperature Silver Conductor

#### Description:

C8829A is a low firing lead and cadmium free silver conductor paste. It exhibits excellent solderability on a wide variety of substrates including aluminum, anodized aluminum, alumina and soda lime glass.

#### ● Key Benefits:

- Low firing temperature
- Excellent solderability
- Low resistivity
- Pb and Cd free
- Au and Al wire bondable

#### ● Typical Properties:

##### Resistivity:

≤ 3.5 milliohms/square @ 12 microns  
fired film thickness

##### Adhesion:

80x80 mil pad on Alumina

62Sn/36Pb/2Ag @ 225°C RMA flux

Initial: ≥ 3.0lbs

80x80 mil pad on IP6075

62Sn/36Pb/2Ag @ 225°C

Initial @ 490°C > 4.0lbs

Initial @ 550°C: > 5.0lbs

95Sn/5Ag @ 260°C

Initial @ 490°C: > 5.0lbs

##### Solderability:

Glass substrate

62Sn/36Pb/2Ag @ 225°C

RMA flux

≥ 95%

##### Coverage:

90 cm<sup>2</sup>/g

##### Viscosity:

150-200 Kcps Brookfield HBT,  
SC4-14 spindle and 6R utility cup  
@ 10 rpm, 25°C

##### % Solids:

76% ± 1%

##### Au Wire Bonding:

1.25 mil wire, 99.9% Au, 3-7% elongation

Fired @ 550°C

Initial: > 7g

#### ● Recommended Processing Guidelines

##### Printing:

280 mesh stainless steel screen  
0.5 mil emulsion

##### Drying:

Dry at 150°C for 10 minutes

##### Firing:

490-550°C peak temperature  
Dwell time of 5-8 minutes

##### Line Definition:

≥10 mils (250 microns)

##### Thickness:

Dried: 12-18 microns

Fired: 6-10 microns

##### Compatibility:

IP6075 – Pb free dielectric on Al

##### 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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The descriptions and engineering data shown here have been compiled by Heraeus using commonly-accepted procedures, in conjunction with modern testing equipment, and have been compiled as according to the latest factual knowledge in our possession. The information was up-to date on the date this document was printed (latest versions can always be supplied upon request). Although the data is considered accurate, we cannot guarantee accuracy, the results obtained from its use, or any patent infringement resulting from its use (unless this is contractually and explicitly agreed in writing, in advance). The data is supplied on the condition that the user shall conduct tests to determine materials suitability for a particular application.

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