

## Conductors

### C8829B



## Low Temperature Silver Conductor

#### Description:

C8829B is a low firing lead and cadmium free silver conductive paste. It was developed for the IAMS system and exhibits excellent solderability on IAMS dielectrics.

#### ● Key Benefits:

- Low firing temperature
- Excellent solderability with SAC305 on IAMS system
- Pb and Cd free

#### ● Typical Properties:

#### Resistivity:

< 6.0 milliohms/square @ 12 microns  
fired film thickness

#### Adhesion:

80x80 mil pad on IP6075/IP6017

62Sn/36Pb/2Ag @ 225°C

Initial @ 490°C > 4.0lbs

Initial @ 550°C > 5.0lbs

SAC305 @ 255°C

> 5.0lbs

#### Solderability:

Glass substrate

62Sn/36Pb/2Ag @ 225°C, 5 seconds dip, RMA flux

≥ 90%

SAC305 @ 255°C, 5 seconds dip, RMA flux

≥ 95%

#### Viscosity:

150-200 Kcps Brookfield HBT,

SC4-14 spindle and 6R utility cup

@ 10 rpm, 25°C

#### Au Wire Bondability on IP6075:

1.25 mil wire

99.99% Au, Elongation 3-5%

Initial: > 10 grams

#### % Solids:

76% ± 1%

#### ● Recommended Processing Guidelines

#### Printing:

280 mesh stainless steel screen

0.5 mil emulsion

#### Drying:

Dry at 150°C for 10 minutes

#### Firing:

550°C peak temperature

Dwell time of 2-3 minutes

#### Coverage:

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

#### Line Definition:

≥ 6 mils (150 microns)

#### Thickness:

Dried: 16-20 microns

Fired: 8-12 microns

#### Compatibility:

IP6075 – Pb free dielectric on Al

IP6017 – 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.

YY01110.2

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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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