

Conductors

PCC11827



Pb Free Nitrogen Fireable Copper Conductor

Description:

PCC11827 is a Pb free copper conductor designed for screen printing as a termination paste on resistor networks.

● Key Benefits:

- Excellent solderability
- Excellent adhesion

● Typical Properties:

Viscosity:

260 - 325 Kcps Brookfield RVT, Spindle 7 at 10 rpm, 25°C

Resistivity:

≤ 1.5 milliohms per square
at 25 microns fired film thickness

Adhesion:

80x80 mil pads
62Sn/36Pb/2Ag @ 230°C

Initial > 7 lbs

Solderability:

80 x 80 mil pads
63Sn/37Pb at 230°C

Excellent coverage

● Recommended Processing Guidelines:

Printing:

150 - 280 stainless steel mesh screen
0.4 – 1.0 mil emulsion.

Print Speed:

Up to 25 cm/sec (10 in/sec)

Drying:

Dry at 130°C for 10 minutes.

Firing Profile:

Fire in Nitrogen
940°C to 975°C peak temperature
Dwell time of 2 - 5 minutes.

Thickness:

Fired: 22 - 28 microns

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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