

PCC11914

Component Metallization

Description

PCC11914 is a Pb and Cd free high performance silver conductor designed for metallizing ceramic component devices. It employs a mix bonded; lead free frit system that yields a dense, highly conductive film that provides high adhesion to various oxide substrates. The rheology of PCC11914 is optimized for dipping and spraying methods of application.

Key Features

- REACH1 and ROHS2 compliant Pb and Cd free
Excellent conductivity High adhesion to various oxide substrates Optimised for dipping and spraying applications



Typical Properties

Viscosity	2.7 – 3.3 kcps, Brookfield RVT Spindle #4 @ 20 rpm, 25°C
Resistivity	< 1.5 mΩ/□ at 25 μm fired film thickness
Solderability	3 seconds dip Sn62/Pb36/Ag2 at 200 °C 100% coverage
Solder Leaching	Sn62/Pb36/Ag2 at 230 °C 100 mil wide conductor trace, 5 x 5 seconds dips ≤ 10% loss

Recommended Processing Guide

Printing Parameters	The material should be thoroughly shaken before use. Apply the materials by dipping or spraying.
Drying Temperature	125 - 150 °C for 10 - 15 minutes

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Recommended Processing Guide (continued)

Process Temperature (TDS)	850 °C peak temperature Dwell time of 10 minutes
Film Thickness	11 – 18 µm
Recommended Thinner	Heraeus RV-4424

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Warranty

Material guaranteed to meet specifications for 6 months from date of manufacturing with proper storage.

Storage

Store in a dry location at 5 – 25°C. DO NOT REFRIGERATE. Allow paste to come to room temperature prior to opening. Spatulate well before using, as settling may occur during storage.

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