

C4729A

Conductor

Description

C4729A is a Ag/Pt conductor, designed for automotive applications. C4729A is a new member of Heraeus' line of lead free conductors with excellent fired film density, high conductivity, good solder leach resistance, excellent aged adhesion and aluminum wire bondable.

Key Features

- Excellent aged adhesion Dense fired film Good Al wire bond adhesion (initial and aged)



Typical Properties

Viscosity	120 – 180 kcps, Brookfield HBT, SC4-14 spindle & 6R utility cup @ 10 rpm, 25°C
Solids	79.5 ± 1.0%
Resistivity	≤ 5 mΩ/per square at 12 μm fired film thickness
Solderability	80 x 80 mil pad Sn62/Pb36/Ag2 at 230 ± 5 °C 5 ± 1 sec. dip, RMA flux ≥ 95% solder coverage
Solder Leaching	** (10 sec dips) # of Dips**% Line Lost Sn62/Pb36/Ag2 1 ≤ 10% 230 °C, RMA flux 3 ≤ 15%

Recommended Processing Guide

Printing Parameters	230 – 325 mesh stainless steel screen 0.5 mil emulsion
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Recommended Processing Guide (continued)

Drying Temperature	150 °C for 10 minutes
Process Temperature (TDS)	850 °C peak temperature Dwell time of 10 – 12 minutes Total cycle time of 36 – 60 minutes
Film Thickness	Wet: 34 – 42 µmDried: 23 – 27 µmFired: 10 – 14 µm
Recommended Thinner	Heraeus RV-372

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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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