

Technical Data Sheet



THICK FILM MATERIALS

Product Type: Conductors

Product Name: C8640



Pb Free Silver/Copper Conductor

Description

C8640 is a lead free eutectic Ag/Cu conductor. The rheology is designed for screen printing and is fired in air.

Key Benefits

- Low resistivity
- Fires in air atmosphere
- ROHS¹ compliant

Typical Properties

Resistivity

≤ 7 mΩ/□ at 12 μm fired film thickness

Viscosity

100 – 150 Kcps Brookfield HBT
SC4 – 14 spindle, 6R utility cup at 10 rpm, 25 °C

Solids

81.5 ± 1.0 %

Recommended Processing Guidelines

Printing

325 mesh stainless steel screen
0.5 mil emulsion

Drying

150 °C for 10 minutes

Firing

850 °C peak temperature
Dwell time of 10 – 12 minutes at peak
Total cycle time 36 – 60 minutes

Thickness:

Wet: 22 – 26 μm
Dried: 14 – 18 μm
Fired: 10 – 14 μm

Thinner:

RV-507

Warranty:

Material guaranteed to meet specifications for 6 months from date of shipment.

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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Legend:

1) RoHS compliant according to the latest * Directives (European Union) of Restriction of Hazardous Substances ("RoHS") and its subsequent amendments (including the exceptions related to Pb)

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