

Technical Data Sheet

THICK FILM MATERIALS

Product Type: Component Metallizations

Product Name: CL 11-6109



Platinum Conductor

Description

CL11-6109 is a fritted platinum paste, which fires to a pure metal surface. CL11-6109 uses an acid resistant frit that makes this material ideal for use in hostile environments.

Key Benefits

- Chemically resistant
- Acid resistant
- Can be used on alumina, zirconia or titania bodies
- REACH¹ compliant

Typical Properties

Resistivity

50 mΩ/□ at 10 μm fired film thickness

HTCR/ CTR (ppm/°C)

< 3400/ < 3500

Adhesion

80 x 80 mil pad on alumina at 950 °C

Sn62/Pb36/Ag2 at 235 °C, RMA flux

Initial: > 3.0 lbs

100 hours @ 150 °C: > 3.5 lbs

Sn10/Pb88/Ag2 at 365 °C, RMA flux

Initial: > 4.5 lbs

100 hours @ 150 °C: > 4.5 lbs

Solderability

Sn62/Pb36/Ag2 at 235 °C and Sn10/Pb88/Ag2 at 365 °C,

5 second dip, RMA flux, 80 x 80 mil pad

> 90 %

Solder Leaching

Sn62/Pb36/Ag2 at 235 °C and Sn10/Pb88/Ag2 at 365 °C,

RMA flux, 80 x 80 mil pad

< 10 % loss after 6 x 10 second dips

Viscosity

10 – 19 Kcps, Cone and Plate, CP25-1 Spindle,

20 sec⁻¹, 25 °C

Solids

75.6 ± 1.0 %

Recommended Processing Guidelines

Printing

280 – 325 mesh stainless steel screen

0.5 mil emulsion

Drying

90 – 130 °C peak temperature

Cycle time of 10 minutes

Firing

800 – 950 °C peak temperature

Dwell time of 9 – 11 minutes

Thickness:

Dried: 13 – 15 μm

Fired: 6 – 8 μm

Thinner:

RV-372

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⁾ REACH compliant according to the latest * Annex XIV to Regulation (EC) of the European Parliament and of the council on the Registration, Evaluation, Authorisation and Restriction of Chemicals ("REACH") by European Chemicals Agency and its subsequent amendments; the material does not contain any substance listed in Annex XIV.

Heraeus Electronics
Heraeus Deutschland GmbH & Co. KG
Heraeusstraße 12 – 14
63450 Hanau, Germany
www.heraeus-electronics.com

Americas
Phone +1 610 825 6050
electronics.americas@heraeus.com

Asia Pacific
Phone +65 6571 7677
electronics.apac@heraeus.com

China
Phone +86 21 3357 5457
electronics.china@heraeus.com

Europe, Middle East and Africa
Phone +49 6181 35 3069, +49 6181 35 3627
electronics.emea@heraeus.com