

Technical Data Sheet

THICK FILM MATERIALS

Product Type: Component Termination

Product Name: PCC11865/PCC11866



Pb Free PTC Thermistor Disc Termination System

Description

PCC11865/PCC11866 is a Pb and Cd free 2-part screen printable, cofireable silver termination system for use on PTC thermistor discs. PCC11865 is the non-solderable ohmic contact on the ceramic thermistor disc when used alone. PCC11866 forms the solderable top layer.

Key Benefits

- REACH¹ and ROHS² compliant
- Formulated for PTC thermistor bodies
- Co-fireable two part system
- Excellent ohmic contact
- Readily solderable

Typical Properties

Metal

Silver

Viscosity

PCC11865 80 – 100 kcps

PCC11866 80 – 100 kcps

Brookfield HBT, SC4-14 spindle and 6R utility cup at 10 rpm, 25 °C

Solderability

Sn62/Pb36/Ag2 at 205 – 220 °C, R or RMA flux
100 %

Recommended Processing Guidelines

Processing Sequence

1. Print PCC11865 on side 1, dry
2. Print PCC11866 on side 2, dry
3. Overprint PCC11866 on side 1, dry
4. Overprint PCC11866 on side 2, dry
5. Co fire

Printing

100 – 250 stainless steel mesh screens
0.4 – 1.0 mil emulsion

Drying

150 °C for 10 minutes

Firing

600 – 650 °C peak temperature
Dwell time of 8 – 12 minutes at peak

Thinner

PCC11865 – RV-372

PCC11866 – RV-100

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.

Technical Data Sheet



Pb Free PTC Thermistor Disc Termination System

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.

2) 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).

* See the data sheet issue date (DD/MM/YY) as reference of validity of latest edition which is available on request

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

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

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

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