

## Component Termination

### PCC11865/PCC11866



## Pb Free PTC Thermistor Disc Termination System

#### Description:

PCC11865/PCC11866 is a lead and cadmium 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. PCC11865HV is a higher viscosity version of PCC11865. PCC11866 forms the solderable top layer.

#### ● Key Benefits:

- Lead and cadmium free
- Customer formulated for PTC thermistor bodies
- Co-fireable two part system
- Excellent ohmic contact
- Readily solderable

#### ● Typical Properties:

#### Metal Type:

Silver

#### Viscosity:

PCC11865: 80 - 100 kcps  
 PCC11865HV: 100 – 125 kcps  
 PCC11866: 80-100 kcps  
 Brookfield HBT, SC4-14 spindle  
 and 6R utility cup at 10rpm, 25°C

#### Solderability:

62Sn/36Pb/2Ag  
 @ 205 – 220°C, R or RMA flux  
 Excellent

#### ● Recommended Processing Guidelines

#### Processing Sequence:

1. Print PCC11865 on side 1, dry
2. Print PCC11865 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:

Dry at 150°C for 10 minutes.

#### Firing:

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

#### Thinner:

PCC11865/PCC11865HV – RV-372 (Terpineol)  
 PCC11866 – RV-100 (Arcosolv TPM)

#### Warranty:

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

#### Storage:

Store in a dry location at 5°C -25°C.  
**DO NOT REFRIGERATE.**  
 Allow paste to come to room temperature prior to opening.  
 Spatulate well before using.

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The descriptions and engineering data shown here have been compiled by Heraeus using commonly-accepted procedures, in conjunction with modern testing equipment, and have been compiled as according to the latest factual knowledge in our possession. The information was up-to date on the date this document was printed (latest versions can always be supplied upon request). Although the data is considered accurate, we cannot guarantee accuracy, the results obtained from its use, or any patent infringement resulting from its use (unless this is contractually and explicitly agreed in writing, in advance). The data is supplied on the condition that the user shall conduct tests to determine materials suitability for a particular application.

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