**Technical Data Sheet**

**THICK FILM MATERIALS**

**Product Type:** Component Metallization  
**Product Name:** CL80-8747R

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**Description**

CL80-8747R is a lead free varistor disc termination. It exhibits excellent electrical performance characteristics.

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**Key Benefits**

- REACH\(^1\) and ROHS\(^2\) compliant
- Material is specifically formulated for ZnO
- Low laydown
- Outstanding electrical characteristics
- Screen printable

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**Typical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Metal</strong></td>
<td>Silver</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>50 – 75 Kcps, Brookfield HBT Spindle SC4-14 and 6R utility cup at 10 rpm at 25 °C</td>
</tr>
<tr>
<td><strong>Solids</strong></td>
<td>74.0 ± 1.0 %</td>
</tr>
<tr>
<td><strong>F.O.G</strong></td>
<td>Less than 10 µm (4(^{th}) scratch)</td>
</tr>
</tbody>
</table>

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**Recommended Processing Guidelines**

- **Printing**: 105 – 200 stainless steel mesh screen
- **Drying**: 150 °C for 10 minutes
- **Firing**: 600 – 700 °C peak temperature
- **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.
Zinc Oxide Varistor Termination

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.