# MATERIAL DECLARATION SHEET

**Material Number** | CR1206A Series  
**Product Line** | Thick Film Chip Resistors  
**Compliance Date** | 2018/06/14  
**RoHS Compliant** | Yes  
**MSL** | 1

<table>
<thead>
<tr>
<th>No.</th>
<th>Construction Element(subpart)</th>
<th>Homogeneous Material</th>
<th>Material weight [mg]</th>
<th>Homogeneous Material\ Substances</th>
<th>CASRN if applicable</th>
<th>Materials Mass %</th>
<th>Material Mass % of total unit wt.</th>
<th>Subpart mass of total wt. (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ceramic Substrate</td>
<td>CRXXXX</td>
<td>7.78997</td>
<td>Aluminum oxide</td>
<td>1344-28-1</td>
<td>96%</td>
<td>87.04%</td>
<td>90.67%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Silicon dioxide</td>
<td>14808-60-7</td>
<td>4%</td>
<td>3.63%</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Conductor Layer</td>
<td>AZZ.002.5421</td>
<td>0.14692</td>
<td>Silver</td>
<td>7440-22-4</td>
<td>95%</td>
<td>1.62%</td>
<td>1.71%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Glass</td>
<td>65997-17-3</td>
<td>5%</td>
<td>0.09%</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Resistive Element</td>
<td>AZZ.002.00XXX</td>
<td>0.09536</td>
<td>Ruthenium oxide</td>
<td>12036-10-1</td>
<td>25%</td>
<td>0.28%</td>
<td>1.11%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Silver</td>
<td>7440-22-4</td>
<td>40%</td>
<td>0.44%</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Palladium</td>
<td>7440-05-3</td>
<td>15%</td>
<td>0.17%</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Lead Glass</td>
<td>9439-92-1</td>
<td>20%</td>
<td>0.22%</td>
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<tr>
<td>4</td>
<td>Over Coating</td>
<td>AZZ.002.1057A</td>
<td>0.11341</td>
<td>Epoxy</td>
<td>25068-38-6</td>
<td>100%</td>
<td>1.32%</td>
<td>1.32%</td>
</tr>
<tr>
<td>5</td>
<td>Marking</td>
<td>ZSR-XXX</td>
<td>0.01289</td>
<td>Epoxy</td>
<td>25085-99-8</td>
<td>100%</td>
<td>0.15%</td>
<td>0.15%</td>
</tr>
<tr>
<td>6</td>
<td>End Terminal</td>
<td>AZZ.003.0048</td>
<td>0.00687</td>
<td>Nickel</td>
<td>7440-02-0</td>
<td>80%</td>
<td>0.06%</td>
<td>0.08%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Chromium</td>
<td>7440-47-3</td>
<td>20%</td>
<td>0.02%</td>
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<tr>
<td>7</td>
<td>Ni Plating</td>
<td>Ni</td>
<td>0.23197</td>
<td>Nickel</td>
<td>7440-02-0</td>
<td>100%</td>
<td>2.70%</td>
<td>2.70%</td>
</tr>
<tr>
<td>8</td>
<td>Sn Plating</td>
<td>Sn</td>
<td>0.19417</td>
<td>Tin</td>
<td>7440-31-5</td>
<td>100%</td>
<td>2.26%</td>
<td>2.26%</td>
</tr>
</tbody>
</table>

**TOTAL WEIGHT** | 8.59156

This Document was updated on: 2018/06/14  
Important remarks: It is the responsibility of the user to verify they are accessing the latest version.