Chokes for Power Lines

**Material Data Sheet**

### Product Class:

**Choke PCEM**  
B78338P23xxA004  
B78338P2168A004

**Date:** 20.09.2017

**Version:** 02

### Product Part (IMDS: semi component)

<table>
<thead>
<tr>
<th>Material Class (IMDS: Material)</th>
<th>Substance</th>
<th>Traces if applicable</th>
<th>CAS if applicable</th>
<th>Weight</th>
<th>Part Numbers</th>
<th>Sum in total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Active Part</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ceramic</td>
<td>4B</td>
<td>Manganese-zinc ferrite</td>
<td>100</td>
<td>12645-49-7</td>
<td>B78338P2311A004</td>
<td>350</td>
</tr>
<tr>
<td>Metal</td>
<td>1C</td>
<td>Copper (Cu)</td>
<td>100</td>
<td>7440-50-8</td>
<td>B78338P2311A004</td>
<td>350</td>
</tr>
<tr>
<td>Polymer</td>
<td>2C</td>
<td>Polyester-imide</td>
<td>50</td>
<td>61128-48-9</td>
<td>B78338P2311A004</td>
<td>350</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Encapsulation and Mounting</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polymer</td>
<td>5B</td>
<td>Epoxy (EP)</td>
<td>100</td>
<td>25068-38-6</td>
<td>B78338P2311A004</td>
<td>350</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Termination</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metal</td>
<td>1C</td>
<td>Copper (Cu)</td>
<td>100</td>
<td>7440-50-8</td>
<td>B78338P2311A004</td>
<td>350</td>
</tr>
</tbody>
</table>

**Not part of a Product Class B78338P2309A004**

**Contact**  
Dr. Johann Reindl, MAG EPQM

**Division**  
TDK Electronics AG, Magnetics Business Group (MAG)

**Address**  
Rosenheimer Strasse 116b, 81669 Munich

**Tel:** +49 89 54020 3030  
**Mail:** johann.reindl@tdk-electronics.tdk.com

---

**Important remarks:**

1) The declaration limit is 0.1% as defined by IEC 62474 (IEC PAS 61906) Traces are product parts, substances etc. that are below a percentage of 0.1 % by weight, if not otherwise regulated

2) This Material Data Sheet contains typical values of the respective products set forth herein. We expressly point out that all values and statements contained herein are based on our best present knowledge and cannot be regarded as binding statements or binding product specifications, unless otherwise explicitly agreed in writing. TDK ELECTRONICS AG AND ITS AFFILIATES HEREBY EXPRESSLY DISCLAIM ANY REPRESENTATION OR WARRANTY, WHETHER EXPRESS, IMPLIED OR STATUTORY, WITH REGARD TO THE STATEMENTS AND VALUES CONTAINED HEREIN, INCLUDING BUT NOT LIMITED TO ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR SUITABILITY FOR ANY PURPOSE.

---

**RoHS - Exemptions for the Product Class / Product according to Annex III:**  
(  ☑  valid  ☐  not valid  )

- [ ] no exemptions;
- [ ] Exemption 6 (a): Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.3% lead by weight;
- [ ] Exemption 6 (b): Lead as an alloying element in aluminum containing up to 0.4% lead by weight;
- [ ] Exemption 6 (c): Copper alloy containing up to 4% lead by weight;
- [ ] Exemption 7 (a): Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit chip packages;
- [ ] Other Exemption than above: .................................................................