

**Material Data Sheet** 

## **SMT Inductors**

| В   |  | 3D Transponder Coil<br>B82453C****A***<br>17.08.2016   |   |  |   |   |  |  |   |
|---|--|--|---|--|---|---|--|--|---|
|   |  |  |   |  |   |   |  |  |   |
| IMDS ID<br>if available   |  |  |   |  | 62  | 15  | 27   |  |   |
| Version   |  | 02   |   |  |   |   |  |  |   |
| Product Part<br>(IMDS: semi<br>component)   | emi (IMDS: Material)   |  | Material<br>(Classification)<br>VDA 231   | Substance  |   | TMPS**)<br>[wt%]  | CAS<br>if applicable   | typical mass of<br>material<br>[wt-%]  | Traces<br>see 1   |
| Active Part   | Ceramic  |  | 4B  | Ni-Zn Ferrite  |   | 100   | 12645-50-0   | 36   |   |
|   | Heavy Metal  |  | 1C  | Cu   |   | 100   | 7440-50-8  | 27   |   |
|   | Elastomer  |  | 2B  | Polyamidimide  |   | 100   | 31957–38–7   | 1.2  |   |
| <b>F</b> actor 1- (1-   |  |  | 20  |  |   |   |  | ۲.۷  |   |
| Encapsulation   | Duromer  |  | 2C  | Epoxy resin (EP)   |   | 25<br>75  | 25928-94-3   | 30   |   |
|   | Duromer  |  | 2C  | silica<br>Acrylate   |   |   | 60676-86-0<br>5888-33-5  |  | x   |
|   | Duronner   |  | 20  |  |   | 100   |  |  | X   |
| Termination   | Heavy Metal<br>Heavy Metal   |  | 1C  | Cu   | 96 7440-50-80 5.6   |   | 5.6  |  |   |
|   |  |  |   | Sn   |   | 4   | 7440-31-5  |  |   |
|   |  |  | 1C  | Sn   |   | 100   | 7440-31-5  | 0.2  |   |
| 1,5 x 12,5 x 3,6  | oduct Cla  |  | B82453C****A***   |  |   | arka.   |  |  |   |
|   |  | ·····  | MAG EPQM  | (444.0)  | 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   |   |  |  |   |
|   |  |  | G, Magnetics Business Group   | p (MAG)  |   |   |  |  |   |
|   | Rosenheir  | mer Strass   | se 116b, 81669 Munich   |  |   |   |  | poroontago or o. r /o by m   |   |
|   |  |  | mailto  |  | . otherwise   |   | pontaine tunical velue   | of the respective product  | -   |
| **) typical mass p  | percentage   | e of subst   |   |  | 2) This Mater<br>herein. We<br>based on (<br>or binding<br>ELECTRO<br>REPRESE<br>STATUTO<br>HEREIN, I<br>WARRAN   | ial Data Sheet<br>e expressly poir<br>pur best presen<br>product specific<br>NICS AG AND<br>INTATION OR<br>RY, WITH REC<br>NCLUDING BU<br>TY OF MERCH   | t out that all values ai<br>t knowledge and canr<br>ations, unless otherw<br>ITS AFFILIATES HEI<br>WARRANTY, WHETH<br>ARD TO THE STATE<br>T NOT LIMITED TO J<br>ANTABILITY OR SUI  | s of the respective product<br>nd statements contained h<br>lot be regarded as binding<br>ise explicitly agreed in wri<br>REBY EXPRESSLY DISCI<br>IER EXPRESS. IMPLIED<br>EMENTS AND VALUES Cr<br>ANY REPRESENTATION<br>TABILITY FOR ANY PURI                              | erein are<br>statements<br>ting. TDK<br>LAIM ANY<br>OR<br>OR<br>OR<br>POSE.                 |
| (*) typical mass p<br>The products se<br>Directive 2011/65/E  | ercentag<br>et forth he<br>U of the Eu   | e of substa<br>erein are uropean Pa  | ed substances acc. GADSL)   | compatible means that prod<br>une 8 <sup>th</sup> , 2011 on the restricti  | 2) This Mater<br>herein. We<br>based or<br>or binding<br>ELECTRO<br>REPRESE<br>STATUTO<br>HEREIN, I<br>WARRAN<br>ucts are compatible<br>ion of the use of cer   | ial Data Sheet<br>expressly poir<br>pur best presen<br>product specific<br>NICS AG AND<br>NTATION OR<br>RY, WITH REC<br>NCLUDING BU<br>TY OF MERCH<br>with the requir   | t out that all values ai<br>t knowledge and canr<br>ations, unless otherw<br>ITS AFFILIATES HEI<br>WARRANTY, WHETH<br>ARD TO THE STATE<br>T NOT LIMITED TO J<br>ANTABILITY OR SUI<br>ements according to J                             | nd statements contained h<br>not be regarded as binding<br>ise explicitly agreed in wri<br>REBY EXPRESSLY DISCI<br>IER EXPRESS, IMPLIED<br>EMENTS AND VALUES C<br>MAY REPRESENTATION<br>TABILITY FOR ANY PURI<br>Art. 4 (substance restrictio                              | erein are<br>statements<br>ting. TDK<br>LAIM ANY<br>OR<br>ONTAINED<br>OR<br>POSE.<br>ns) of |
| *) typical mass p<br>The products se<br>Directive 2011/65/E<br>ROHS - Exemption<br>a no exemptions;<br>Exemption 6 (a):   | et forth he<br>EU of the Et<br>ons for th<br>Lead as an  | erein are<br>uropean Pa<br>he Product  | ed substances acc. GADSL)<br>ance<br>"RoHS-compatible". RoHS-c<br>rliament and of the Council of Ju<br>ct Class / Product accordir<br>ent in steel for machining purposes ar  | compatible means that prod<br>une 8 <sup>th</sup> , 2011 on the restricti<br><b>ng to Annex III: (</b> ☑ valid<br>nd in galvanized steel containing  | 2) This Mater<br>herein. We<br>based on c<br>or binding<br>ELECTRO<br>REPRESE<br>STATUTO<br>HEREIN, I<br>WARRAN<br>ucts are compatible<br>ion of the use of cer   | ial Data Sheet<br>expressly poir<br>product specifin<br>NICS AG AND<br>NICS AG AND<br>NICS AG AND<br>NICS MG | t out that all values ai<br>t knowledge and canr<br>ations, unless otherw<br>ITS AFFILIATES HEI<br>WARRANTY, WHETH<br>ARD TO THE STATE<br>T NOT LIMITED TO J<br>ANTABILITY OR SUI<br>ements according to J                             | nd statements contained h<br>not be regarded as binding<br>ise explicitly agreed in wri<br>REBY EXPRESSLY DISCI<br>IER EXPRESS, IMPLIED<br>EMENTS AND VALUES C<br>MAY REPRESENTATION<br>TABILITY FOR ANY PURI<br>Art. 4 (substance restrictio                              | erein are<br>statements<br>ting. TDK<br>LAIM ANY<br>OR<br>ONTAINED<br>OR<br>POSE.<br>ns) of |
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