

### Materials Data Sheet

<b>Package family</b>	<b>Inductive Components</b>	<b>Group H</b>
<b>Date</b>	21.01.2003	
<b>Version</b>	01	

Composition part	Material group	Materials	CAS if applicable	Range [weight-%]		Sum & Average Masses [%]	Traces
				Min	Max		
<b>Active Part</b>						<b>45</b>	
	Ceramics, Iron alloy	Ferrites or Metal oxides (A)		34	56		
<b>Encapsulation</b>						<b>10</b>	
	Plastics	Thermoplastics, Thermosettings and / or Silicones (B)		0	20		
<b>Termination / Conductors</b>						<b>45</b>	
	Nonferrous metals, Iron alloy, Other metals	Cu, Cu Alloy, Steel and / or Tin alloy	7440-50-8	34	56		
		Lead (Pb)	7439-92-1	0	0,4		
Sum in total:						100	

<b>Weight range</b>	(C)
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Not part of package family
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<b>Companies</b>	VOGT electronic AG	<b>Important remarks:</b> 1) Traces are product parts, substances etc. that are below a percentage of 0.1 % by weight., if not otherwise regulated (see note no. 2). 2) A list of the (legal) "... restrictions on substances ..." or materials is available at internet address: <a href="http://www.eicta.org/Content/Default.asp?PageID=211">http://www.eicta.org/Content/Default.asp?PageID=211</a> . 3) Substances, materials etc. with possible harmful effects on human beings and the environment are listed. 4) There are no risks for human beings and to the environment if products are properly used as designated. This shall not apply to risks caused during procedures for disposal etc. 5) All statements herein are based on our present knowledge. If our products are used properly, there are no risks to human beings and/or the environment.
	VACUUMSCHMELZE GmbH & CO. KG	
	TAIYO YUDEN EUROPE GmbH	
	NKL GmbH	
	KASCHKE KG	
	EPCOS AG	

<b>Statement A:</b>	Ceramic, magnetic, mainly consists of Fe <sub>2</sub> O <sub>3</sub> , ZnO, MnO, NiO with the addition of further elements in multiple oxidation states. The following elements may be present in traces up to low percentages: cobalt, barium, copper, silicon, vanadium, aluminium, calcium, ... Normally the details of composition are manufacturers property and treated as confidential.
<b>Statement B:</b>	E.g.: PC, PA, PPS, LCP, PBTP, PETP, PTFE, PUR, PF, UP, EP and/ or Silicone. Some of the plastic materials may contain halogenated flame retardants or antimonytrioxide.
<b>Statement C:</b>	The individual component weight and case size are mentioned in the component data sheet or available on request at the manufacture.