

# Ferrite

# Material Data Sheet

<b>Product Class:</b>	<b>Manganese Zinc Ferrite Cores, uncoated</b>	
<b>Date</b>	<b>31.01.18</b>	
<b>IMDS ID if available</b>		
<b>Version:</b>	<b>07</b>	

Product part (IMDS: semi component)	Material Class (IMDS: Material)	Material (Classification) VDA 231	Substance	TMPS**) [wt%]	CAS if applicable	typical mass of material [wt-%]	Traces see 1)
<b>Active Part</b>	Ceramic	4B	Manganese Zinc Ferrite	99.5	12645-49-7	100	
			others *)	0.5			
<b>Sum in total:</b>						<b>100</b>	

Size Ø x L [max. in mm]	Part Numbers	Weight [approx. in g]
11x9 – 42.2x27	RM cores	6 – 74
50x39 – 114x93	PM cores	140 – 1940
5.7x6.15x3.9 – 21.6x24.5x15.3	EP, EPX, EPO cores	0.5 – 27
3.35x2.6 – 41x25	P cores	0.06 – 82
14.3x8.5 – 30.5x19	TT/PR cores	3.2 – 33.3
5.3x5.25x2 – 66.4x70.5x32	E cores	0.12 – 514
7x14x5 – 20.4x53.6x50.8	ELP cores	1.6 – 210
5x9x6 – 37x53.5x18.3	ER cores	0.6 – 146
16x30.6x9.8 – 31.2x59.8x22.1	ETD cores	28 – 260
17.45x34.5x9.8 – 34.65x70x16.8	EC cores	36 – 252
5.2x10.5x2.7 – 15x22.4x9.1	EFD cores	0.8 – 24
9x14.8x7 – 16.4x29.7x12.5	EV cores	5.7 – 37
92x28x93 – 108.5x30x141	Impeders	600 – 2500
		6.5 - 3360

<b>Not part of a product class</b>		
<b>Contact</b>	Dr. Johann Reindl, MAG EPQM	<b>Important remarks:</b> 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.
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*) others: (not declarable or prohibited substances acc. GADSL) Can contain cobalt, barium, copper, silicon, vanadium, aluminum, calcium. Neither lead, cadmium, boronoxide or mercury or its compounds, nor hexavalent chromium are intentionally added **) typical mass percentage of substance		

The products set forth herein are "RoHS-compatible". RoHS-compatible means that products are compatible with the requirements according to Art. 4 (substance restrictions) of Directive 2011/65/EU of the European Parliament and of the Council of June 8<sup>th</sup>, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

<b>RoHS - Exemptions for the Product Class / Product according to Annex III:</b> ( <input checked="" type="checkbox"/> valid <input type="checkbox"/> not valid )  <input checked="" type="checkbox"/> no exemptions; <input type="checkbox"/> Exemption 6 (a): Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight; <input type="checkbox"/> Exemption 6 (b): Lead as an alloying element in aluminium containing up to 0,4 % lead by weight; <input type="checkbox"/> Exemption 6 (c): Copper alloy containing up to 4 % lead by weight; <input type="checkbox"/> Exemption 7 (a): Lead in high melting temperature type solder (i.e. lead-based alloys containing 85 % by weight or more lead); <input type="checkbox"/> Exemption 7 (c)-I: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound; <input type="checkbox"/> Exemption 7 (c)-II: Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher; <input type="checkbox"/> Exemption 7 (c)-III: Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC; <input type="checkbox"/> Exemption 15: Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages; <input type="checkbox"/> Other Exemption than above .....
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