

NTC

Material Data Sheet

Product Class	NTC Thermistor B57276K* with Rast 5 connector
Date	22.08.2019
IMDS ID if available	
Version	04

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)
Active Part	Ceramic	3B	Mn ₂ O ₄ NiO Co ₃ O ₄ Dopants*)	64 17 15 4	1317-35-7 1313-99-1 1308-06-1	0,3	
Termination	Noble Metal	1D	Ag Glass frit (Pb-B-silicate)	95 5	7440-22-4	0,02	
Solder	Heavy Metal	1C	Pb Sn Ag	97 1 2	7439-92-1 7440-31-5 7440-22-4	0,48	
Leads	Iron and Steel	1A	Fe	100	7439-89-6	0,58	
	Heavy Metal	1C	Cu	100	7440-50-8	0,28	
	Heavy Metal	1C	Sn	100	7440-31-5	0,04	
Coating	Duromer	2D	Epoxy Brominated epoxy Sb ₂ O ₃ SiO ₂	37,5 11 2,5 49	25068-38-6 40039-93-8 1309-64-4 60676-86-0	0,5	
	Elastomer	2B	Silicone rubber	100		0,6	
Connector	Heavy Metal	1C	Cu Zn	63 37	7440-50-8 7440-66-6	9,7	
	Heavy Metal	1C	Ni	100	7440-02-0	0,1	
	Heavy Metal	1C	Sn	100	7440-31-5	0,2	
	Thermoplast	2A	Polybutylenterephthalate (PBT) incl. brominated compound****) and Sb ₂ O ₃	100		19,9	
Encapsulation	Duromer	2D	Epoxy incl. brominated compound****) and Sb ₂ O ₃	100		31	
Solder	Heavy Metal	1C	Sn Cu	99 1	7440-31-5 7440-50-8	0,6	
Housing	Iron and Steel	1A	Fe Cr Ni Others*)	69 18 10 3	7439-89-6 7440-47-3 7440-02-0	35,7	
Sum in total:						100	

sizes [mm] φ10 x 44,5	weight range [g] 8,4	part numbers: all types B57276K* with Rast 5 connector
Not Part of a Product Class		

Contact	Mr. Heinz Strallhofer	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.
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*) others: (not declarable or prohibited substances acc. GADSL) **) typical mass percentage of substance ***) no PBB, PBDE, HBCDD, TBBPA		
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 th , 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.		
RoHS - Exemptions for the Product Class / Product according to Annex III: (<input checked="" type="checkbox"/> valid <input type="checkbox"/> not valid)		
<input 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 aluminum containing up to 0,4 % lead by weight; <input type="checkbox"/> Exemption 6 (c): Copper alloy containing up to 4 % lead by weight; <input checked="" 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 checked="" 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		