

Varistor

Material Data Sheet

Product Class	Molded Varistor MT25*M301/101 B72225M*
Date	05.11.2020
IMDS ID if available	
Version	5.01

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	ZnO Bi2O3 Sb2O3 Co3O4 NiO others*)	91 4,0 2,5 1 0,5	1314-13-2 1304-76-3 1309-64-4 1308-06-1 1313-99-1	35.2	
Termination	Composite	4D	Ag or Cu Glass frit (boro-silicate)	95 5	7440-22-4 7440-50-8	0,4	
Solder paste	Heavy Metal	1C8	Sn Ag Cu	96,5 3 0,5	7440-31-5 7440-22-4 7440-50-8	0,5	
Low tem. alloy	Heavy Metal	1C8	Sn Bi	42 58	7440-31-5 7440-69-9	0,2	
Leads	Heavy Metal	1C12	Cu	100	7440-50-8	3	
	Heavy Metal	1C8	Sn	100	7440-31-5	0,2	
Spring	Heavy Metal	1C12	Cu Sn P	92,75 7,0 0,25	7440-50-8 7440-31-5 7723-14-0	4	
	Heavy Metal	1C8	Sn	100	7440-31-5		<0,1
Molding	Duromer	2D	Silica Glass Epoxy Phenolic Resin Carbon Black others*)	70 19 5 1	60676-86-0 29690-82-2 9003-35-4 1333-86-4	46,5	
Cover	Thermoplastic	2A	PBT Epoxy resin Antimony oxide Glass fiber	50 10 10 30	26062-94-2 68928-70-1 1309-64-4 65997-17-3	10	
					Sum in total:	100	

sizes [mm]	weight range [g]	material number	part numbers
20~30	12 - 80	B72225M*	MT25*M301/101

Not Part of a Product Class

Contact	Mr. Christoph Ronner		
Division	PPD Q QM		
Address	8530 Deutschlandsberg, AUSTRIA		
	Tel: +43 3462 800 2139	mailto: functional.ppd-eqpm.db@tdk-electronics.tdk.com	

 $[\]ensuremath{^{\star}}\xspace)$ others: .(not declarable or prohibited substances acc. GADSL)

Important remarks:

- 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.
- otherwise regulated.

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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 8th, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

^{**)} typical mass percentage of substance



RoHS - Exemptions for the Product Class / Product according to Annex III: (valid not valid) In the operation of the product Class / Product according to Annex III: (valid not valid) In the operation of the product Class / Product according to Annex III: (valid not valid not valid) In the operation of the product Class / Product according to Annex III: (valid not v