

MKTFILM Capacitor

Product Cla	ISS	MKT Boxed B32520x/521x/522x Capacitor							ו	
Date		18/11/2019						MKT		
IMDS ID if available		NA						[]	1	
Version		5.02.1	a (03/2019)							
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	Polymer		2A	Polyethylene terephthalate (PET)		e (PET)	100	25038-59-9	13,5	
	Heavy metal		1C	Tin		97	7440-31-5			
	Heavy metal		1C	Copper		3	7440-50-8	15		
	Light Metals		1B	Aluminium		100	7429-90-5	5		
Encapsulation	Polymer		2A	Poly(1,4-butylene terephthalate) (PBT			60	26062-94-2	-	
	Mineral Materials		3A	Fiber Glass		21,5	65997-17-3	24,8		
	Functional Material		4B	Tetrabromobisphene Oligomer (TBBPA)	arbonate	21,5	71342-77-3			
	Functional Material		4B	Tetrabromobisphene Ether	glycidye	18,5	68928-70-1			
	Inorganic Solid		4A	Diantimony Trioxide				1309-64-4		
	Duromer		2C	Bisphenol A Epoxy	Resin		90	25068-38-6	29,9	
	Acid, Salt, Base		6F	others *)		10	-	23,3		
Termination	Heavy metal / Metallic		1C / 1A	Copper or Iron/Cop	per		100 100	7440-50-8 / 7439-89-6	10,6 or 8,3 / 2,3	
	Heavy metal		1C	Tin	in		100	7440-31-5	1,2	
			1	4				Sum in total:	100	
sizes [Ixwxh] 2,5x7,0x10,0mm 3,0x8,0x10,0mm 4,0x8,5x10,0mm 5,0x10,5x10,0mm 6,0x12,0x10,3mm	ge [g]	B32520* 4, 4, 5,	es [lxwxh] weight ran lx7,0x13,0mm 0,52 lx9,0x13,0mm 0,70 lx11,0x13,0mm 1,10 lx12,0x13,0mm 1,40	ige [g]	[g] part numbers sizes [lxwxh] weight range [g] part numbers B32521* 5,0x10,5x18,0mm 1,50 B32522* 6,0x11,0x18,0mm 1,90 6,0x12,0x18,0mm 2,10 7,0x12,5x18,0mm 2,50 8,0x14,0x18,0mm 3,20 8,5x14,5x18,0mm 3,30 9,0x17,5x18,0mm 4,50 11,0x18,5x18,0mm 5,60 5,60 5,60					
Not Part of a P	roduct Cla	ISS					-			
Contact	Perosa, Eduardo					 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. 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 				
Division Address	CAP FILM, (GTI EPQM) TDK Electronics do Brasil Ltda, Bernardo Joaquim Ferreira, 624 – Gravataí, RS, Brazil Tel: +55 51 3484 7337 mailto: eduardo.perosa@tdk-electronics.tdk.com									
**) typical mass	percentag	e of subst				or binding pr ELECTRON REPRESEN STATUTOR HEREIN, IN WARRANTY	roduct specific ICS AG AND ITATION OR V Y, WITH REG CLUDING BU Y OF MERCH	ations, unless other ITS AFF ILIATES HE VARRANTY, WHET ARD TO THE STAT T NOT LIMITED TO ANTABILITY OR SU	inot be regarded as binding wise explicitly agreed in writ REBY EXPRESSLY DISCI HER EXPRESS, IMPLIED 0 EMENTS AND VALUES CO ANY REPRESENTATION OF ITABILITY FOR ANY PURF ording to Art. 4 (substance in	ing. TDK AIM ANY DR DNTAINED DR POSE.

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.



RoHS - Exemptions for the Product Class / Product according to Annex III: (🗹 valid 🗆 not valid)

☑ no exemptions;

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;

Exemption 6 (b): Lead as an alloying element in aluminium containing up to 0,4 % lead by weight;

Exemption 6 (c): Copper alloy containing up to 4 % lead by weight;

Exemption 7 (a): Lead in high melting temperature type solder (i.e. lead-based alloys containing 85 % by weight or more lead);

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;

Exemption 7 (c)-II: Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher;

Exemption 7 (c)-III: Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC;

Exemption 15: Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages;

Conter Exemption than above