

Film Capacitors

Material Data Sheet

Product Class	Film Capacitors (boxed) -Halogen free B3202x / B3262x / B3265x / B3267x / B3277x / B3279x / B3292x / B3292x(*1)/ B3291x / B81xxx series (*1)			HR-UR S	
Date	18/11/2019	. a		MINISTER MARKET	
IMDS ID if available	NA	**	40	- R1 - FM	
Version	5.02.1a (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)
	Light metal or Heavy metal	1B or 1C	Al or Zn (depending on specific type)	100	7429-90-5 7440-66-6	6 (if Al) 10 (if Zn)	
	Heavy metal	1C	Sn	70	7429-90-5 7440-31-5	7 (if AI) 3 (if Zn)	Option 1
Active Part			Zn	30	7440-66-6	5	
			Zn	100	7440-66-6	12 (if AI) 8 (if Zn)	Option 2
			Sn	97	7440-31-5	11 (if Al) 7 (if Zn)	Option 3
			Cu	3	7440-50-8	1	
	Thermoplastic	2A	PP	100	9003-07-00	20	
Encapsulation	Duromer	2D	Epoxy -halogen free	50	24969-06-0	11	
	Inorganic, solid	5A	Al (OH)₃	45	21645-51-2	10	
	Plasticizer	Not available	Other	5		1	
	Thermoplastic	2A	PBT	85 or 70 or 55	26062-94-2	27 or 22 or 17	
	Flame retardant	Not available	Halogen free flame retardant	15	Not available	5	
	Inorganic, solid	4A	Glass Fiber	0 or 15 or 30	65997-17-3	0 or 5 or 10	
Termination	Heavy metal or Iron and Steel incl. Alloys	teel specific type)		92or 90/2		7.5 or 7/0.5	
	Heavy metal	1C	Sn	8	7440-31-5	0.5	
		•		•	Sum in total:	100	

						oum in total.	100	
sizes	weight range [g]	part numbers	sizes	weight range [g]	part numbers	•		
3.0 x 8.0 x 10.0	0,4	x=0	14.0 x 24.5 x 31.5	16,0	x=4			
4.0 x 9.0 x 13.0	0,7	x=1	18.0 x 32.0 x 41.5	29,0	x=6			
9.0 x 17.5 x 18.0	4,5	x=2	35.0 x 50.0 x 57.5	90.0	x=8			
11.0 x 20.5 x 26.5	9,0	x=3						

Not Part of a Product Class

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^{*)} 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.
- 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.

^{**)} typical mass percentage of substance

