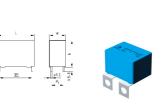


**Material Data Sheet** 

## **MKP Film Capacitors (Boxed)**

Product Class:	Film Capacitors					
	B3265x / B3262x /B3267x / B3277x/ B3292x / B3202x/B3291x / B81xxx/B3279x(*1)					
Date:	10/05/2010					
IMDS ID if available:						
Version:	3.02 (04/2010)					





Product pa (IMDS: semi component)	art	Material Class (IMDS: Material)	Material (Classification VDA 231		Substance	e			TMPS**) [wt%]	CAS if applicable	typical mass of material [wt-%]	Traces see 1)	
Active Part		Light metal or	1b		Al or Zn (depending on specific type)			ype)	100	7429-90-5 (AI)	6 (if Al)		
		Heavy metal							7440-66-6 (Zn)	10 (if Zn)			
		Heavy metal	1c		Sn			97	7440-31-5	11 (if Al)			
											7 (if Zn)		
		Heavy metal	1c		Cu			3	7440-50-8	1			
		Thermoplastic	2a		PP				100	9003-07-00	20		
Encapsulation		Organic, solid	5b		Ероху				30		9		
		Inorganic, solid	5a		AI (OH)3			50	21645-51-2	11			
Pla Th Fla		Plasticizer	Not available		DBP ***)			20	84-74-2	2			
		Thermoplastic	2a Pi		PBT				84	26062-94-2	26		
		Flame retardant	Not available			N,N Ethylene-			12	32588-76-4	5		
		Inorganic, solid	5a		Sb <sub>2</sub> O <sub>3</sub>	omophthalimide			4	1309-64-4	1		
Termination Heavy metal or Iron and Steel incl. Alloys   Heavy metal Heavy metal		1c or 1a		Cu or Fe/Cu (depending on specific			92 or	1000 04 4	7.5 or 7/0.5				
		Iron and Steel			type)	a (depending on specific		90/2		7.5 01 770.5			
		Heavy metal	1c		Sn			8	7440-31-5	0.5			
(*1): Subst	titute th	ne x by number indi	cated in part nur	nbers					<u>.</u>	Sum in total:	100		
sizes		L x D x H [mm] weight [g] part numbers		numbers	Sizes L x D			x H [mm]	weight [g]	Part numbers			
LS 7,5		10,0 x 3,0 x 8,0	0,4	x=0			LS 27,5	31,5 x	14,0 x 24,5	16,0	x=4		
LS 10		13,0 x 4,0 x 9,0	0,7	x=1			LS 37,5 41,5 x 18,		18,0 x 32,0	29,0	x=6		
LS 15		18,0 x 9,0 x 17,5	4,5	x=2	2		LS 52,5	57.5 x 35		90.0	x=8		
LS 22,5		26,5 x 11,0 x 20,5	9,0	x=3									
Contact	Adriar	n Kewell					Important remarks:						
Division	Film					1) The declaration limit is 0.1% as defined by IEC PAS 61906. Traces are product parts, substance							
Address	P.O. 321- 29006 Málaga Spain				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								
	Tel: +	-952 049 223	mailto: adrian.ke	ewell @e	epcos.com	2) This initial bala offset contains typical values of the tespective products set for interest. 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							
*) others: .(	(not de	eclarable or prohibite	ed substances a	ICC. GA	DSL)						or binding product specificat AFFILIATES HEREBY EX		
**) typical mass percentage of substance				DISCLAIM ANY REPRESENTATION OR WARRANTY, WHETER 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.									
***) EPCOS is working on elimination of DBP usage. Please check													
European Pa amended by	arliame / the Co with the	nt and of the Council on mmission Decisions e	of 27 January 2003 .g. 2005/618/EC, 2	on the r 2005/717	restriction of 7/EC; 2005/7	the us 47/EC	se of certain hazard C, 2006/310/EC, 200	ous subs )6/690/E	stances in elec C, 2006/691/E	ctrical and electronic e EC and 2006/692/EC	ts of Directive 2002/95/EC equipment ("Directive 2002 ("RoHS-Regulations"), and pro-visions reflect the RoH	/95/EC"), a l are	

Regulations.

RoHS - Exemptions for the product class / product according Annex and Commissions Decisions (status 03/2008): ( 🗵 valid 🗅 not valid )

 $\blacksquare$  no exemptions

Exemption 5: Lead in glass of cathode ray tubes, electronic components and fluorescent tubes.

Exemption 6: Lead as an alloying element in steel containing up to 0,35 % lead by weight, aluminum containing up to 0,4 % lead by weight and as a 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): lead in electronic ceramic parts (e.g. piezo electronic devices);

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