



Material Content Data Sheet



Sales Product Name				KP229E3111		Issued		25. January 2018	
MA#				MA001035070					
Package				PG-DSOF-8-16		Weight*		227.26 mg	
Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]	
chip	inorganic material	silicon	7440-21-3	12.899	5.68	5.68	56758	56758	
leadframe	inorganic material	phosphorus	7723-14-0	0.009	0.00		41		
	non noble metal	zinc	7440-66-6	0.037	0.02		163		
	non noble metal	iron	7439-89-6	0.740	0.33		3255		
wire	non noble metal	copper	7440-50-8	30.034	13.22	13.57	132159	135618	
	noble metal	gold	7440-57-5	0.168	0.07	0.07	741	741	
	encapsulation	organic material	carbon black	1333-86-4	0.588	0.26		2586	
encapsulation	plastics	silicone resin	-	17.373	7.64		76448		
	plastics	epoxy resin	-	21.305	9.37		93748		
	inorganic material	silicondioxide	60676-86-0	125.036	55.03	72.30	550203	722985	
leadfinish	noble metal	gold	7440-57-5	0.020	0.01		87		
	noble metal	palladium	7440-05-3	0.020	0.01		88		
	non noble metal	nickel	7440-02-0	0.196	0.09		863		
plating	inorganic material	phosphorus	7723-14-0	0.000	0.00	0.11	2	1040	
	inorganic material	chromiumoxide	1308-38-9	0.170	0.07		749		
	inorganic material	zincoxide	1314-13-2	0.397	0.17	0.24	1748	2497	
lid attach material	organic material	carbon black	1333-86-4	0.005	0.00		22		
	inorganic material	silicondioxide	60676-86-0	0.476	0.21		2094		
	plastics	epoxy resin	-	0.500	0.22	0.43	2202	4318	
lid	inorganic material	glass fibre	-	5.716	2.52		25153		
	plastics	Polyphenylene Sulfide	26125-40-6	8.574	3.77	6.29	37729	62882	
glue	inorganic material	alumina	1344-28-1	0.164	0.07		724		
	inorganic material	titandioxide	13463-67-7	0.030	0.01		132		
	inorganic material	silicondioxide	60676-86-0	0.553	0.24		2435		
	plastics	silicone resin	-	2.243	0.99	1.31	9870	13161	
*deviation	< 10%			Sum in total:		100.00		1000000	

Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

This product is in compliance with EU Directive 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption

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