



Material Content Data Sheet



Sales Product Name				KP219M1203		Issued		23. January 2018	
MA#				MA001641340					
Package				PG-D50F-8-16		Weight*		226.02 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	12.745	5.64	5.64	56387	56387	
leadframe	inorganic material	phosphorus	7723-14-0	0.009	0.00		41		
	non noble metal	zinc	7440-66-6	0.037	0.02		164		
	non noble metal	iron	7439-89-6	0.740	0.33		3273		
	non noble metal	copper	7440-50-8	30.034	13.29	13.64	132878	136356	
wire	noble metal	gold	7440-57-5	0.167	0.07	0.07	741	741	
encapsulation	organic material	carbon black	1333-86-4	0.588	0.26		2600		
	plastics	silicone resin	-	17.373	7.69		76865		
	plastics	epoxy resin	-	21.305	9.43		94258		
	inorganic material	silicondioxide	60676-86-0	125.036	55.32	72.70	553200	726923	
leadfinish	inorganic material	phosphorus	7723-14-0	0.000	0.00		2		
	noble metal	gold	7440-57-5	0.020	0.01		88		
	noble metal	palladium	7440-05-3	0.020	0.01		89		
	non noble metal	nickel	7440-02-0	0.196	0.09	0.11	868	1047	
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		2106		
	plastics	epoxy resin	-	0.500	0.22	0.43	2214	4342	
lid	inorganic material	glass fibre	-	5.716	2.53		25289		
	plastics	Polyphenylene Sulfide	26125-40-6	8.574	3.79	6.32	37934	63223	
glue	inorganic material	titandioxide	13463-67-7	0.025	0.01		110		
	inorganic material	alumina	1344-28-1	0.137	0.06		604		
	inorganic material	silicondioxide	60676-86-0	0.459	0.20		2031		
	plastics	silicone resin	-	1.861	0.82	1.09	8236	10981	
*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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