



Material Content Data Sheet



Sales Product Name				KP229E3111		Issued		3. July 2019	
MA#				MA001035068					
Package				PG-D50F-8-16		Weight*		225.97 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	56400	56400	
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		
wire	non noble metal	copper	7440-50-8	30.034	13.29	13.64	132909	136387	
	noble metal	gold	7440-57-5	0.168	0.07	0.07	745	745	
	encapsulation	organic material	carbon black	1333-86-4	0.588	0.26		2601	
encapsulation	plastics	epoxy resin	-	21.305	9.43		94280		
	inorganic material	silicondioxide	60676-86-0	125.036	55.34	65.03	553328	650209	
	leadfinish	inorganic material	phosphorus	7723-14-0	0.000	0.00		2	
plating	noble metal	gold	7440-57-5	0.015	0.01		67		
	noble metal	palladium	7440-05-3	0.015	0.01		67		
	non noble metal	nickel	7440-02-0	0.149	0.07	0.09	658	794	
	inorganic material	chromiumoxide	1308-38-9	0.002	0.00		8		
lid attach material	inorganic material	zinc	1314-13-2	0.004	0.00	0.00	18	26	
	organic material	carbon black	1333-86-4	0.005	0.00		22		
	inorganic material	silicondioxide	60676-86-0	0.476	0.21		2106		
lid	plastics	epoxy resin	-	0.500	0.22	0.43	2215	4343	
	inorganic material	glass fibre	-	5.716	2.53		25295		
	plastics	Polyphenylene Sulfide	26125-40-6	8.574	3.79	6.32	37943	63238	
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		2032		
gel	plastics	silicone resin	-	1.861	0.82	1.09	8238	10984	
	plastics	silicone resin	-	17.371	7.69	7.69	76874	76874	
*deviation	< 10%		Sum in total:			100.00		1000000	

Important Remarks:

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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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