



## Material Content Data Sheet



<b>Sales Product Name</b>				KP229E3111		<b>Issued</b>		24. January 2018	
<b>MA#</b>				MA001641052					
<b>Package</b>				PG-D50F-8-16		<b>Weight*</b>		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		
wire	non noble metal	copper	7440-50-8	30.034	13.29	13.64	132878	136356	
	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	
encapsulation	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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