



Material Content Data Sheet



Sales Product Name				KP219N3621		Issued		25. September 2017	
MA#				MA000872322					
Package				PG-D50F-8-16		Weight*		229.53 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	5.55	5.55	55526	55526	
leadframe	inorganic material	phosphorus	7723-14-0	0.009	0.00		40		
	non noble metal	zinc	7440-66-6	0.037	0.02		161		
	non noble metal	iron	7439-89-6	0.740	0.32		3223		
wire	non noble metal	copper	7440-50-8	30.034	13.08	13.42	130849	134273	
	noble metal	gold	7440-57-5	0.168	0.07	0.07	733	733	
	encapsulation	organic material	carbon black	1333-86-4	0.450	0.20		1959	
encapsulation	plastics	epoxy resin	-	13.788	6.01		60069		
	inorganic material	silicondioxide	60676-86-0	135.630	59.09	65.30	590901	652929	
	leadfinish	noble metal	gold	7440-57-5	0.020	0.01		87	
leadfinish	noble metal	palladium	7440-05-3	0.020	0.01		88		
	non noble metal	nickel	7440-02-0	0.196	0.09		854		
	inorganic material	phosphorus	7723-14-0	0.000	0.00	0.11	2	1031	
plating	inorganic material	chromiumoxide	1308-38-9	0.170	0.07		742		
	inorganic material	zincoxide	1314-13-2	0.397	0.17	0.24	1731	2473	
lid attach material	organic material	carbon black	1333-86-4	0.005	0.00		21		
	inorganic material	silicondioxide	60676-86-0	0.476	0.21		2073		
	plastics	epoxy resin	-	0.500	0.22	0.43	2180	4274	
lid	inorganic material	glass fibre	-	5.716	2.49		24903		
	plastics	Polyphenylene Sulfide	26125-40-6	8.574	3.74	6.23	37355	62258	
glue	inorganic material	alumina	1344-28-1	0.137	0.06		595		
	inorganic material	titandioxide	13463-67-7	0.025	0.01		108		
	inorganic material	silicondioxide	60676-86-0	0.459	0.20		2000		
gel	plastics	silicone resin	-	1.861	0.81	1.08	8110	10813	
	plastics	silicone resin	-	17.373	7.57	7.57	75690	75690	
*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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