



Material Content Data Sheet



Halogen-Free

Sales Product Name	KP229E3111	Issued	24. February 2022
MA#	MA005701359		
Package	PG-DSOF-8-16	Weight*	228.48 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	5.58	5.58	55781	55781
leadframe	inorganic material	phosphorus	7723-14-0	0.009			40	
	non noble metal	zinc	7440-66-6	0.037	0.02		162	
	non noble metal	iron	7439-89-6	0.740	0.32		3237	
	non noble metal	copper	7440-50-8	30.034	13.14	13.48	131449	134888
wire	noble metal	gold	7440-57-5	0.167	0.07	0.07	733	733
encapsulation	organic material	carbon black	1333-86-4	0.588	0.26		2572	
	plastics	epoxy resin	-	21.305	9.32		93244	
	inorganic material	silicondioxide	60676-86-0	125.036	54.74	64.32	547249	643065
leadfinish	inorganic material	phosphorus	7723-14-0	0.000			2	
	noble metal	gold	7440-57-5	0.015	0.01		66	
	noble metal	palladium	7440-05-3	0.015	0.01		67	
	non noble metal	nickel	7440-02-0	0.149	0.06	0.08	650	785
lid	inorganic material	glass fibre	-	8.401	3.68		36768	
	plastics	Polyphenylene Sulfide	26125-40-6	8.401	3.68	7.36	36768	73536
glue	organic material	carbon black	1333-86-4	0.005			21	
	inorganic material	titandioxide	13463-67-7	0.025	0.01		109	
	inorganic material	alumina	1344-28-1	0.137	0.06		597	
	plastics	epoxy resin	-	0.500	0.22		2190	
	inorganic material	silicondioxide	60676-86-0	0.935	0.41		4093	
	plastics	silicone resin	-	1.861	0.81	1.51	8147	15157
gel	plastics	silicone resin	-	17.371	7.60	7.60	76029	76029
adhesion promoter	inorganic material	chromiumoxide	1308-38-9	0.003			13	
	inorganic material	zincoxide	1314-13-2	0.003			13	26
*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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