



Material Content Data Sheet



Halogen-Free

Sales Product Name	KP229E3111	Issued	13. August 2021
MA#	MA001641052		
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 attach material	organic material	carbon black	1333-86-4	0.005			21	
	inorganic material	silicondioxide	60676-86-0	0.476	0.21		2083	
	plastics	epoxy resin	-	0.500	0.22	0.43	2190	4294
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	inorganic material	titandioxide	13463-67-7	0.025	0.01		109	
	inorganic material	alumina	1344-28-1	0.137	0.06		597	
	inorganic material	silicondioxide	60676-86-0	0.459	0.20		2010	
	plastics	silicone resin	-	1.861	0.81	1.08	8147	10863
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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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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