



Material Content Data Sheet



Halogen-Free

Sales Product Name	AIKQ120N60CT	Issued	17. February 2022
MA#	MA005619814		
Package	PG-TO247-3-46	Weight*	6900.65 mg

Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip_1	inorganic material	silicon	7440-21-3	6.406	0.09	0.09	928	928
chip_2	inorganic material	silicon	7440-21-3	11.796	0.17	0.17	1709	1709
leadframe	inorganic material	phosphorus	7723-14-0	1.220	0.02		177	
	non noble metal	iron	7439-89-6	4.066	0.06		589	
	non noble metal	copper	7440-50-8	4,060.901	58.85	58.93	588482	589248
wire	non noble metal	aluminium	7429-90-5	38.810	0.56	0.56	5624	5624
encapsulation	organic material	carbon black	1333-86-4	20.408	0.30		2957	
	plastics	epoxy resin	-	387.758	5.62		56192	
	inorganic material	silicondioxide	60676-86-0	1,632.666	23.66	29.58	236597	295746
leadfinish	non noble metal	tin	7440-31-5	33.555	0.49	0.49	4863	4863
plating	non noble metal	nickel	7440-02-0	2.052	0.03	0.03	297	297
solder	non noble metal	antimony	7440-36-0	1.217	0.02		176	
	noble metal	silver	7440-22-4	3.043	0.04		441	
	non noble metal	tin	7440-31-5	7.911	0.11	0.17	1146	1763
heatspreader	inorganic material	phosphorus	7723-14-0	0.207			30	
	non noble metal	iron	7439-89-6	0.689	0.01		100	
	non noble metal	copper	7440-50-8	687.941	9.97	9.98	99692	99822
*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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