



Material Content Data Sheet



Halogen-Free

Sales Product Name	IKY40N120CH3	Issued	10. May 2021
MA#	MA001620092		
Package	PG-TO247-4-2	Weight*	6894.10 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	12.542	0.18	0.18	1819	1819
chip_2	inorganic material	silicon	7440-21-3	7.262	0.11	0.11	1053	1053
leadframe	inorganic material	phosphorus	7723-14-0	0.183			27	
	non noble metal	iron	7439-89-6	0.611	0.01		89	
	non noble metal	copper	7440-50-8	610.481	8.86	8.87	88551	88667
wire	non noble metal	aluminium	7429-90-5	27.103	0.39	0.39	3931	3931
encapsulation	organic material	carbon black	1333-86-4	20.613	0.30		2990	
	plastics	epoxy resin	-	391.643	5.68		56808	
	inorganic material	silicondioxide	60676-86-0	1,649.022	23.92	29.90	239193	298991
leadfinish	non noble metal	tin	7440-31-5	35.857	0.52	0.52	5201	5201
plating	non noble metal	nickel	7440-02-0	1.952	0.03	0.03	283	283
solder	non noble metal	antimony	7440-36-0	0.989	0.01		143	
	noble metal	silver	7440-22-4	2.472	0.04		359	
	non noble metal	tin	7440-31-5	6.428	0.09	0.14	932	1434
heatspreader	inorganic material	phosphorus	7723-14-0	1.238	0.02		180	
	non noble metal	iron	7439-89-6	4.127	0.06		599	
	non noble metal	copper	7440-50-8	4,121.580	59.78	59.86	597842	598621
*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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