



Material Content Data Sheet



Halogen-Free

Sales Product Name	AIKW40N65DF5	Issued	29. June 2021
MA#	MA005413034		
Package	PG-TO247-3-41	Weight*	6051.04 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	2.169	0.04	0.04	358	358
chip_2	inorganic material	silicon	7440-21-3	0.831	0.01	0.01	137	137
leadframe	inorganic material	phosphorus	7723-14-0	0.159			26	
	non noble metal	iron	7439-89-6	0.530	0.01		88	
	non noble metal	copper	7440-50-8	529.068	8.74	8.75	87434	87548
wire	non noble metal	aluminium	7429-90-5	17.056	0.28	0.28	2819	2819
encapsulation	organic material	carbon black	1333-86-4	19.952	0.33		3297	
	plastics	epoxy resin	-	379.089	6.26		62649	
	inorganic material	silicondioxide	60676-86-0	1,596.164	26.38	32.97	263784	329730
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5268	5268
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4803	4803
solder	non noble metal	antimony	7440-36-0	0.260			43	
	noble metal	silver	7440-22-4	0.650	0.01		107	
	non noble metal	tin	7440-31-5	1.690	0.03	0.04	279	429
heatspreader	inorganic material	phosphorus	7723-14-0	1.033	0.02		171	
	non noble metal	iron	7439-89-6	3.442	0.06		569	
	non noble metal	copper	7440-50-8	3,438.006	56.82	56.90	568168	568908
*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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