

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IKW50N65ES5	**Issued**	02. April 2021
MA#	MA001319790		
Package	PG-TO247-3-41	**Weight***	6053.66 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	2.667	0.04	0.04	441	441
chip_2	inorganic material	silicon	7440-21-3	2.181	0.04	0.04	360	360
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	87396	87510
wire	non noble metal	aluminium	7429-90-5	21.448	0.35	0.35	3543	3543
encapsulation	organic material	carbon black	1333-86-4	19.902	0.33		3288	
	plastics	epoxy resin	-	378.143	6.25		62465	
	inorganic material	silicondioxide	60676-86-0	1,592.180	26.30	32.88	263011	328764
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5265	5265
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4801	4801
solder	non noble metal	antimony	7440-36-0	0.396	0.01		65	
	noble metal	silver	7440-22-4	0.990	0.02		164	
	non noble metal	tin	7440-31-5	2.574	0.04	0.07	425	654
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	56.78	56.86	567922	568662
*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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