



Material Content Data Sheet



Halogen-Free

Sales Product Name	IKFW50N65ES5	Issued	12. May 2021
MA#	MA001784170		
Package	PG-HSIP247-3-2	Weight*	5946.46 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	1.800	0.03	0.03	303	303
chip_2	inorganic material	silicon	7440-21-3	2.204	0.04	0.04	371	371
leadframe	inorganic material	phosphorus	7723-14-0	0.153			26	
	non noble metal	iron	7439-89-6	0.511	0.01		86	
	non noble metal	copper	7440-50-8	510.037	8.58	8.59	85772	85884
wire	non noble metal	aluminium	7429-90-5	21.640	0.36	0.36	3639	3639
encapsulation	inorganic material	zinc oxide	1314-13-2	9.149	0.15		1539	
	organic material	carbon black	1333-86-4	20.494	0.34		3446	
	plastics	silicone resin	-	20.585	0.35		3462	
	inorganic material	alumina	1344-28-1	198.993	3.35		33464	
	plastics	epoxy resin	-	389.388	6.55		65482	
	inorganic material	silicon dioxide	60676-86-0	1,639.530	27.57	38.31	275715	383108
lead finish	non noble metal	tin	7440-31-5	15.237	0.26	0.26	2562	2562
plating	inorganic material	phosphorus	7723-14-0	0.001			1	
	non noble metal	nickel	7440-02-0	0.429	0.01	0.01	72	73
solder	non noble metal	antimony	7440-36-0	0.332	0.01		56	
	noble metal	silver	7440-22-4	0.830	0.01		140	
	non noble metal	tin	7440-31-5	2.158	0.04	0.06	363	559
heatspreader	inorganic material	phosphorus	7723-14-0	0.934	0.02		157	
	non noble metal	iron	7439-89-6	3.113	0.05		523	
	non noble metal	copper	7440-50-8	3,108.943	52.27	52.34	522821	523501
*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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