

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IKFW40N65ES5	**Issued**	08. April 2022
MA#	MA005709536		
Package	PG-HSIP247-3-2	**Weight***	5945.87 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	1.381	0.02	0.02	232	232
chip_2	inorganic material	silicon	7440-21-3	1.736	0.03	0.03	292	292
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	85780	85892
wire	non noble metal	aluminium	7429-90-5	21.929	0.37	0.37	3688	3688
encapsulation	inorganic material	zincoxide	1314-13-2	9.149	0.15		1539	
	organic material	carbon black	1333-86-4	20.501	0.34		3448	
	plastics	silicone resin	-	20.585	0.35		3462	
	inorganic material	alumina	1344-28-1	198.993	3.35		33467	
	plastics	epoxy resin	-	389.520	6.55		65511	
	inorganic material	silicondioxide	60676-86-0	1,640.084	27.58	38.32	275836	383263
leadfinish	non noble metal	tin	7440-31-5	15.237	0.26	0.26	2563	2563
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	0.264			44	
	noble metal	silver	7440-22-4	0.659	0.01		111	
	non noble metal	tin	7440-31-5	1.714	0.03	0.04	288	443
heatspreader	inorganic material	phosphorus	7723-14-0	0.934	0.02		157	
	non noble metal	iron	7439-89-6	3.113	0.05		524	
	non noble metal	copper	7440-50-8	3,108.943	52.29	52.36	522873	523554
*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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