



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IKFW40N60DH3E	<b>Issued</b>	10. May 2021
<b>MA#</b>	MA001503566		
<b>Package</b>	PG-HSIP247-3-1	<b>Weight*</b>	5916.79 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	0.563	0.01	0.01	95	95
chip_2	inorganic material	silicon	7440-21-3	2.028	0.03	0.03	343	343
leadframe	inorganic material	phosphorus	7723-14-0	0.164			28	
	non noble metal	iron	7439-89-6	0.545	0.01		92	
	non noble metal	copper	7440-50-8	544.561	9.20	9.21	92037	92157
wire	non noble metal	aluminium	7429-90-5	9.429	0.16	0.16	1594	1594
encapsulation	inorganic material	zinc oxide	1314-13-2	6.001	0.10		1014	
	plastics	silicone resin	-	13.501	0.23		2282	
	organic material	carbon black	1333-86-4	21.806	0.37		3685	
	inorganic material	alumina	1344-28-1	130.514	2.21		22058	
	plastics	epoxy resin	-	414.320	7.00		70024	
	inorganic material	silicon dioxide	60676-86-0	1,744.504	29.48	39.39	294840	393903
lead finish	non noble metal	tin	7440-31-5	16.291	0.28	0.28	2753	2753
plating	inorganic material	phosphorus	7723-14-0	0.001			1	
	non noble metal	nickel	7440-02-0	0.456	0.01	0.01	77	78
solder	non noble metal	antimony	7440-36-0	0.204			35	
	noble metal	silver	7440-22-4	0.510	0.01		86	
	non noble metal	tin	7440-31-5	1.327	0.02	0.03	224	345
heatspreader	inorganic material	phosphorus	7723-14-0	0.903	0.02		153	
	non noble metal	iron	7439-89-6	3.010	0.05		509	
	non noble metal	copper	7440-50-8	3,006.154	50.81	50.88	508070	508732
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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