



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IKFW50N60DH3E	<b>Issued</b>	10. May 2021
<b>MA#</b>	MA001503568		
<b>Package</b>	PG-HSIP247-3-1	<b>Weight*</b>	5917.64 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	0.797	0.01	0.01	135	135
chip_2	inorganic material	silicon	7440-21-3	3.012	0.05	0.05	509	509
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	92023	92143
wire	non noble metal	aluminium	7429-90-5	9.427	0.16	0.16	1593	1593
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	21.794	0.37		3683	
	inorganic material	alumina	1344-28-1	130.514	2.21		22055	
	plastics	epoxy resin	-	414.090	7.00		69975	
	inorganic material	silicon dioxide	60676-86-0	1,743.538	29.46	39.37	294634	393643
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	0.288			49	
	noble metal	silver	7440-22-4	0.720	0.01		122	
	non noble metal	tin	7440-31-5	1.871	0.03	0.04	316	487
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	50.80	50.87	507997	508659
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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