



## Material Content Data Sheet



<b>Sales Product Name</b>		IKZ50N65ES5		<b>Issued</b>		22. January 2018		
<b>MA#</b>		MA001637680						
<b>Package</b>		PG-TO247-4-1		<b>Weight*</b>		6165.15 mg		
Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip	inorganic material	silicon	7440-21-3	4.848	0.08	0.08	786	786
leadframe	inorganic material	phosphorus	7723-14-0	0.867	0.01		141	
	non noble metal	iron	7439-89-6	2.890	0.05		469	
	non noble metal	copper	7440-50-8	2885.760	46.81	46.87	468075	468685
	non noble metal	aluminium	7429-90-5	13.835	0.22	0.22	2244	2244
wire	non noble metal	aluminium	7429-90-5	13.835	0.22	0.22	2244	2244
encapsulation	organic material	carbon black	1333-86-4	20.035	0.32		3250	
	plastics	epoxy resin	-	380.656	6.17		61743	
	inorganic material	silicondioxide	60676-86-0	1602.760	26.00	32.49	259970	324963
leadfinish	non noble metal	tin	7440-31-5	23.087	0.37	0.37	3745	3745
plating	non noble metal	nickel	7440-02-0	1.945	0.03	0.03	316	316
solder	non noble metal	antimony	7440-36-0	0.396	0.01		64	
	noble metal	silver	7440-22-4	0.990	0.02		161	
	non noble metal	tin	7440-31-5	2.574	0.04	0.07	417	642
heatspreader	inorganic material	phosphorus	7723-14-0	0.367	0.01		60	
	non noble metal	iron	7439-89-6	1.225	0.02		199	
	non noble metal	copper	7440-50-8	1222.919	19.84	19.87	198360	198619
*deviation	< 10%		Sum in total:			100.00		1000000

### Important Remarks:

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