



Material Content Data Sheet



Sales Product Name		IKW40N65ES5		Issued		1. August 2018		
MA#		MA002262350						
Package		PG-TO247-3-44		Weight*		6048.86 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	2.204	0.04	0.04	364	364
chip_2	inorganic material	silicon	7440-21-3	2.204	0.04	0.04	364	364
leadframe	inorganic material	phosphorus	7723-14-0	0.159	0.00		26	
	non noble metal	iron	7439-89-6	0.530	0.01		88	
	non noble metal	copper	7440-50-8	529.068	8.75	8.76	87466	87580
	non noble metal	aluminium	7429-90-5	14.826	0.25	0.25	2451	2451
wire	non noble metal	aluminium	7429-90-5	14.826	0.25	0.25	2451	2451
encapsulation	organic material	carbon black	1333-86-4	19.928	0.33		3295	
	plastics	epoxy resin	-	378.631	6.26		62596	
	inorganic material	silicondioxide	60676-86-0	1594.237	26.36	32.95	263560	329451
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5269	5269
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4805	4805
solder	non noble metal	antimony	7440-36-0	0.365	0.01		60	
	noble metal	silver	7440-22-4	0.914	0.02		151	
	non noble metal	tin	7440-31-5	2.375	0.04	0.07	393	604
heatspreader	inorganic material	phosphorus	7723-14-0	1.033	0.02		171	
	non noble metal	iron	7439-89-6	3.442	0.06		569	
	non noble metal	copper	7440-50-8	3438.006	56.80	56.88	568372	569112
*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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