



Material Content Data Sheet



Sales Product Name		IKW40N65ES5		Issued		20. July 2018		
MA#		MA001319752						
Package		PG-TO247-3-41		Weight*		6049.36 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	4.004	0.07	0.07	662	662
leadframe	non noble metal	iron	7439-89-6	0.530	0.01		88	
	inorganic material	phosphorus	7723-14-0	0.159	0.00		26	
	non noble metal	copper	7440-50-8	529.068	8.75	8.76	87459	87573
wire	non noble metal	aluminium	7429-90-5	15.306	0.25	0.25	2530	2530
encapsulation	organic material	carbon black	1333-86-4	19.928	0.33		3294	
	plastics	epoxy resin	-	378.629	6.26		62590	
	inorganic material	silicondioxide	60676-86-0	1594.229	26.35	32.94	263537	329421
leadfinish	non noble metal	tin	7440-31-5	32.273	0.53	0.53	5335	5335
plating	non noble metal	nickel	7440-02-0	29.428	0.49	0.49	4865	4865
solder	non noble metal	antimony	7440-36-0	0.332	0.01		55	
	noble metal	silver	7440-22-4	0.830	0.01		137	
	non noble metal	tin	7440-31-5	2.158	0.04	0.06	357	549
heatspreader	non noble metal	iron	7439-89-6	3.442	0.06		569	
	inorganic material	phosphorus	7723-14-0	1.033	0.02		171	
	non noble metal	copper	7440-50-8	3438.006	56.82	56.90	568325	569065
*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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