



Material Content Data Sheet



Sales Product Name				IKP20N60H3		Issued		1. August 2018	
MA#				MA001648494					
Package				PG-TO220-3-1		Weight*		2031.11 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	0.641	0.03	0.03	315	315	
chip_2	inorganic material	silicon	7440-21-3	2.028	0.10	0.10	998	998	
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121		
	non noble metal	iron	7439-89-6	0.816	0.04		402		
wire	non noble metal	copper	7440-50-8	815.335	40.14	40.19	401422	401945	
	non noble metal	aluminium	7429-90-5	5.636	0.28	0.28	2775	2775	
encapsulation	organic material	carbon black	1333-86-4	5.924	0.29		2917		
	plastics	epoxy resin	-	112.556	5.54		55416		
leadfinish	inorganic material	silicondioxide	60676-86-0	473.918	23.33	29.16	233329	291662	
	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10567	10567	
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1		
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121	
solder	non noble metal	antimony	7440-36-0	0.207	0.01		102		
	noble metal	silver	7440-22-4	0.519	0.03		255		
heatspreader	non noble metal	tin	7440-31-5	1.348	0.07	0.11	664	1021	
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
*deviation	non noble metal	iron	7439-89-6	0.590	0.03		291		
	non noble metal	copper	7440-50-8	589.466	29.02	29.06	290218	290596	
						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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