



Material Content Data Sheet



Sales Product Name		IKP20N60T		Issued		20. July 2018		
MA#		MA001629556						
Package		PG-TO220-3-1		Weight*		2031.45 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	3.130	0.15	0.15	1541	1541
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		402	
	non noble metal	copper	7440-50-8	815.335	40.13	40.18	401355	401878
	non noble metal	aluminium	7429-90-5	5.680	0.28	0.28	2796	2796
wire	non noble metal	aluminium	7429-90-5	5.680	0.28	0.28	2796	2796
encapsulation	organic material	carbon black	1333-86-4	5.919	0.29		2914	
	plastics	epoxy resin	-	112.460	5.54		55359	
	inorganic material	silicondioxide	60676-86-0	473.517	23.31	29.14	233092	291365
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10565	10565
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	0.241	0.01		119	
	noble metal	silver	7440-22-4	0.603	0.03		297	
	non noble metal	tin	7440-31-5	1.567	0.08	0.12	771	1187
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	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	290169	290547
*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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