



## Material Content Data Sheet



<b>Sales Product Name</b>				IKP20N60T		<b>Issued</b>		27. September 2017	
<b>MA#</b>				MA000984562					
<b>Package</b>				PG-TO220-3-1		<b>Weight*</b>		2031.41 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	non noble metal	iron	7439-89-6	0.816	0.04		402		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		121		
	non noble metal	copper	7440-50-8	815.335	40.14	40.19	401363	401887	
wire	non noble metal	aluminium	7429-90-5	5.325	0.26	0.26	2621	2621	
encapsulation	organic material	carbon black	1333-86-4	5.922	0.29		2915		
	plastics	epoxy resin	-	112.520	5.54		55390		
	inorganic material	silicondioxide	60676-86-0	473.768	23.32	29.15	233221	291526	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10565	10565	
plating	non noble metal	nickel	7440-02-0	0.244	0.01		120		
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	120	
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	non noble metal	iron	7439-89-6	0.590	0.03		291		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	copper	7440-50-8	589.466	29.02	29.06	290175	290553	
*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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